



# LOW CARBON LIFESTYLE IN IPOH MALAYSIA

A large, white, three-dimensional sign spelling 'IPOH' is positioned on a lush green hill. The background shows a misty valley with a town and distant mountains under a blue sky with scattered clouds. Several semi-transparent geometric shapes, including triangles and diamonds in shades of blue, green, and grey, are overlaid on the upper left portion of the image.

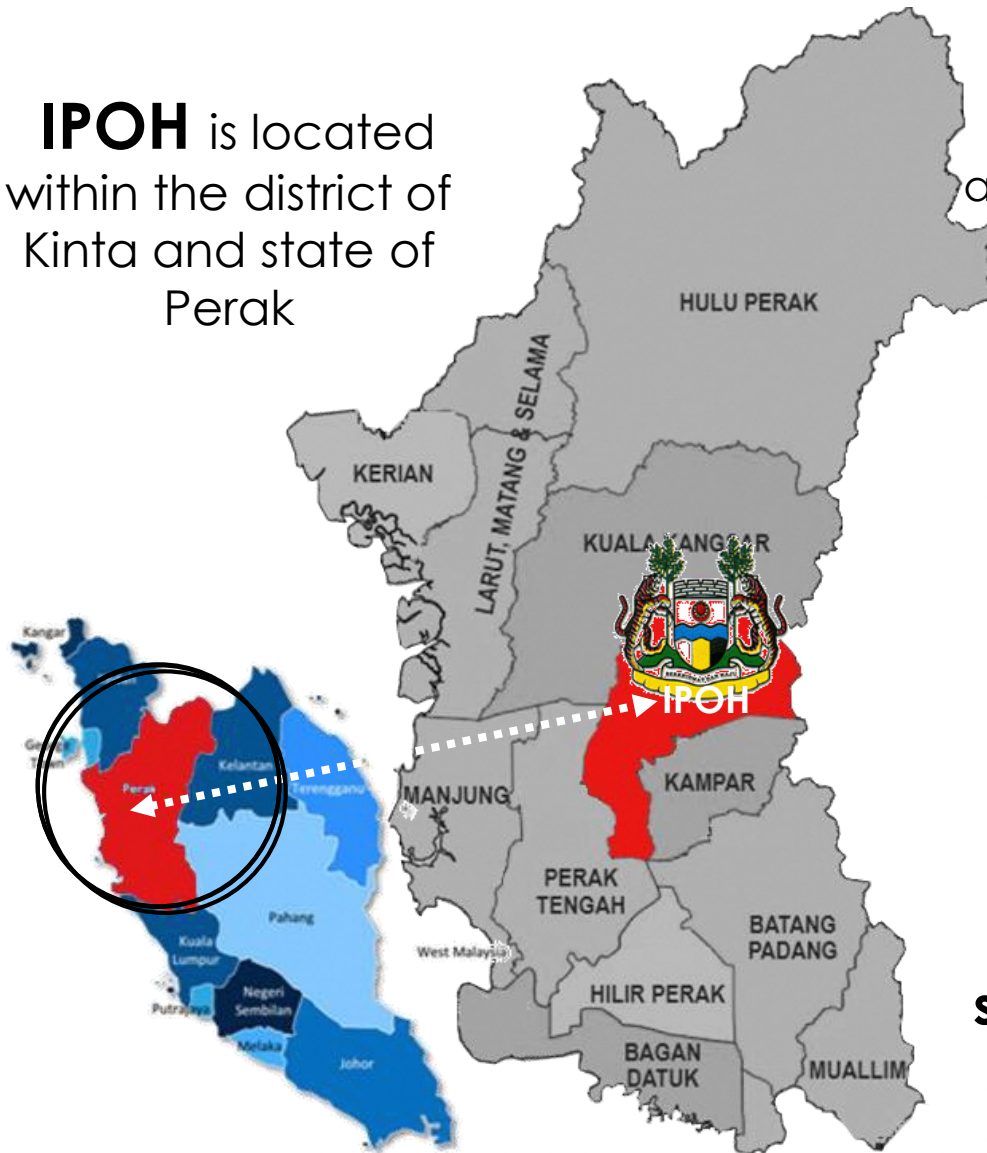
IPOH

**TPr. HAJI MOHD ZAINAL BIN ABDUL HAMID**  
**DIRECTOR OF CITY PLANNING DEPARTMENT**  
**IPOH CITY COUNCIL**

# LOW CARBON CITY PLANNING IN IPOH, MALAYSIA

**IPOH** is located within the district of Kinta and state of Perak

**Government of Malaysia** had announced their commitment toward combating climate change to **reduce by 2030.**



Area :  
**64,257 Hectare**



Population :  
**787,200 (2020)**

**Ipoh City Council** has been listed along with **32 other local authorities** through the implementation of **low carbon strategies** outlined in the National Low Carbon Urban Master Plan (NLCCM).



# IPOH CITY COUNCIL (MAJLIS BANDARAYA IPOH) COMMITMENT

“

**Majlis Bandaraya Ipoh** is committed to implement Low Carbon City 2030 program that anchored from 4 Green House Gases (GHG) Reduction element. MBI final mission is to fulfill National Carbon Reduction of 45% by 2030

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# FRAMEWORK

Serves as a guide to use on elements that contributes to the reduction of GHG emission.

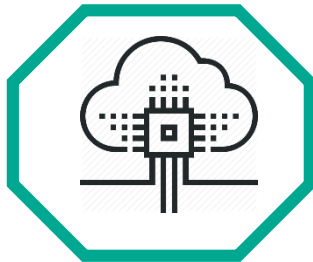


This information would help the user identify areas in which they could target an overall carbon reduction.

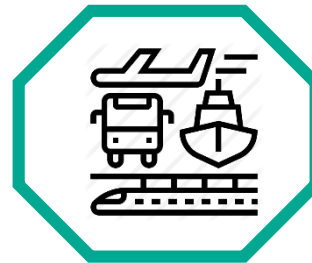
## ELEMENTS



**UE** URBAN  
ENVIRONMENT



**UI** URBAN  
INFRASTRUCTURE



**UT** URBAN  
TRANSPORTATION



**B** BUILDING



A grayscale photograph of a person wearing a cape and white gloves, bending down to pick up a discarded plastic bottle from the ground. The person is wearing a striped long-sleeved shirt and dark pants. The background is a blurred outdoor setting.

**AWARENESS THROUGH EDUCATION**

**SMART WORKING STYLE**

**PROMOTE ENERGY EFFICIENCY**

**PROMOTE SMART TRAVEL CHOICE**

**PROMOTE GREEN AS A LIFESTYLE**

IPOH CITY COUNCIL

***IPOH* LOW  
CARBON  
LIFESTYLE**



# AWARENESS THROUGH EDUCATION

Low Carbon education or environmental education is a learning process that increases people's knowledge and awareness about the environment and associated challenges, develops the necessary skills and expertise to address the challenges, fosters attitudes, motivations, and commitments to make informed decisions and take responsible actions. By conducting programs, the general public and students will be aware and continue to live a low carbon lifestyle. Raising awareness through education (public education and formal education at schools)) is also encouraged.

# Webinar on Ipoh Towards Low Carbon City

This program is an awareness program that aims to expose students especially among high school students about maintaining awareness in achieving Ipoh as Low Carbon City in 2030.



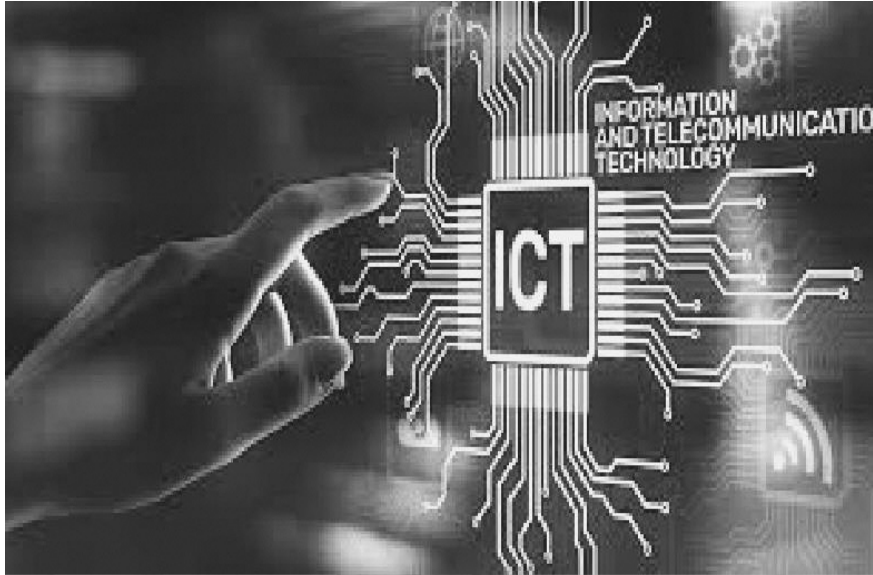




# No Plastic Straw Campaign

Banner is being placed in the lobby and cafe for dissemination to the public to reduce the use of plastic drinking straws. To encourage this program, stainless and paper straws are distributed to each stall owned by MBI. The main purpose of this program is to raise awareness and inculcate citizens on the importance of reducing the use of plastic products either for the sake of health or the environment.



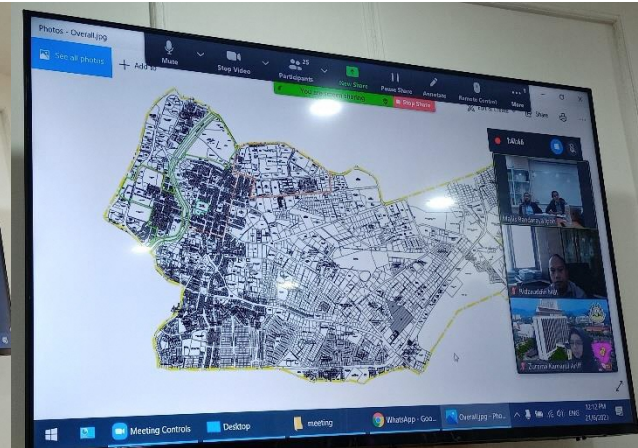
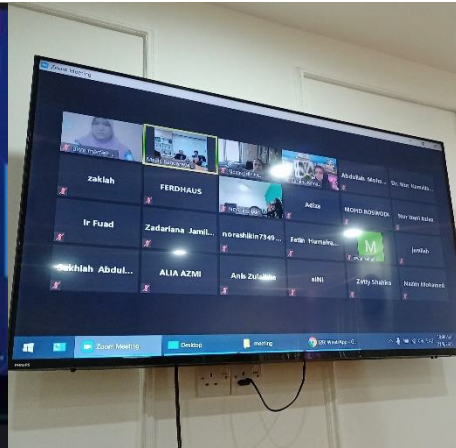


# SMART WORKING STYLE

Smart working style is about finding good practices on more flexible arrangement and alternative working style. By sharing the knowledge on how we can reduce working hours, it can save our energy and lead a good life.

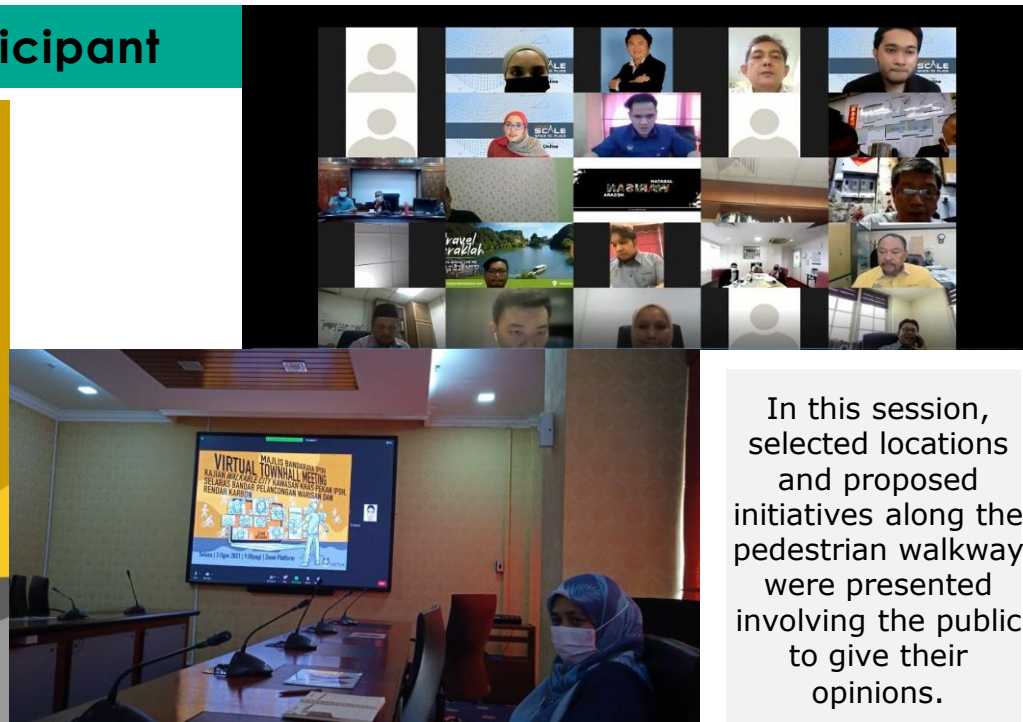


# Work From Home / Meeting Online



Encourage tele-working / telecommuting among sectors employees. Professionals who work from home can do so full time or on a part time basis.

## Virtual Town Hall Session : Public Participant



In this session, selected locations and proposed initiatives along the pedestrian walkway were presented involving the public to give their opinions.

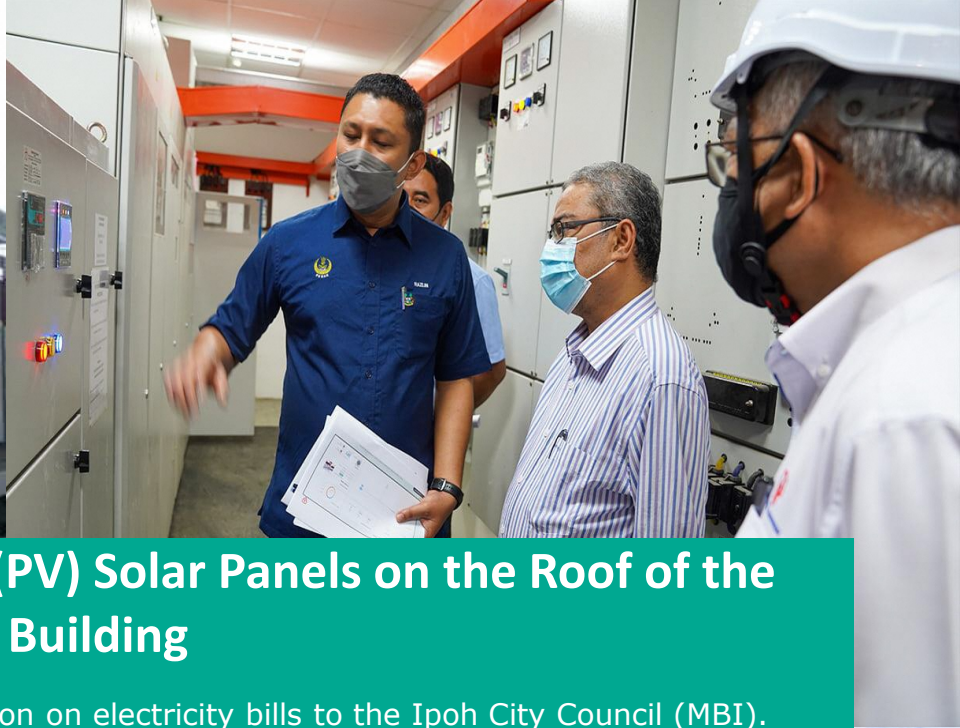




# PROMOTE ENERGY EFFICIENCY

The energy efficiency practice is to promote less spending, less consuming and less CO<sub>2</sub> emission which will eventually lead the society towards a low carbon lifestyle.





## The Installation of Photovoltaic (PV) Solar Panels on the Roof of the (UTC) Building

it is able to provide savings of up to RM2.5 million on electricity bills to the Ipoh City Council (MBI). Urban Transformation Center (UTC) building provide various main services of Government and private sector to the City community all in a one stop center or within a building.





# Ev Charger

Location : Ipoh City Center



# Solar Farming





# PROMOTE SMART TRAVEL CHOICE

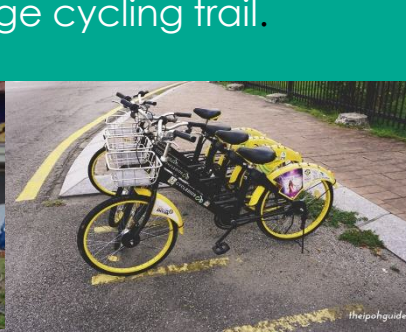
It is about making individuals feel good, smart and socially rewarding travelling on foot, riding bicycle, using public transport, practicing car-pooling as well as eco-driving.



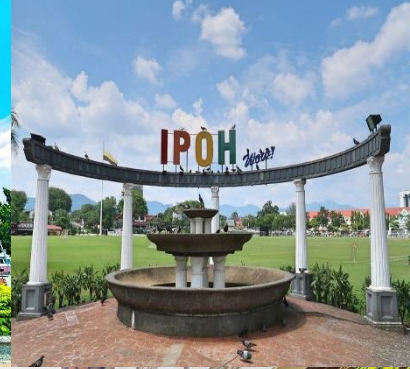


## Ipoh Smart Bike

Best way to explore: Tourists could rent bicycles to tour Ipoh city via its heritage cycling trail.







## Ipoh Heritage Trail

is a leisurely stroll around the compact and historic old town area of Ipoh. This wealth is reflected in the architecture of the period and many fine buildings remain in the old part of the city, west of the River Kinta, and are covered in this Ipoh Heritage Walk.







# PROMOTE GREEN AS A LIFESTYLE

Living green involves a lifestyle that sustains a healthy environment in the home, community and planet.



## Urban Farming

Hydroponics and Fertigation Crops implemented in the foothills of this mountain are expected to support the Government's efforts in ensuring the quality and security of food in the country. The idea of the concept of urban farming was sparked during the outbreak of the COVID-19 epidemic. This is due to the lack of movement of imports and exports of raw materials which causes a shortage of food resources. It is also done in the MBI office area and the harvest is given free to staff and the public.



## 3R ( RIDER, REHAT & RAWAT)

A 'Rider, Rest & Relax' (3R) concept complete with lounge, prayer room, toilet and free wifi. To support MBI in Low Carbon City, this building was built with the use of Rain Water Harvesting System (RWH) and Solar. The Ipoh City Council has taken the initiative to build seven shelters so that food deliverers can gather, relax and chill over there.







IPOH CITY COUNCIL

***IPOH* PROPOSED  
FUTURE PLANNING**

Walkable City

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U.L.E.Z



# PROPOSED FUTURE PLANNING

# ULEZ



Gazetting Ipoh Old Town Centre as an **Ultra-Low Emission Zone (U.L.E.Z.)** following the 2030 Low Carbon City Strategy Plan.



Dedicated **road bike lane**, **roofed pedestrian passageways**, and an **edible garden/bamboo garden/urban farming** area will be built.



PROPOSED IDEA



Installation and replacement with LED streetlights and solar-powered lights - **MyRelamp project**.

PROPOSED IDEA



Provide a **free-of-charge electric shuttle bus service** around Greentown

PROPOSED IDEA



Encouraging **farming initiatives** in **empty areas** of the city.

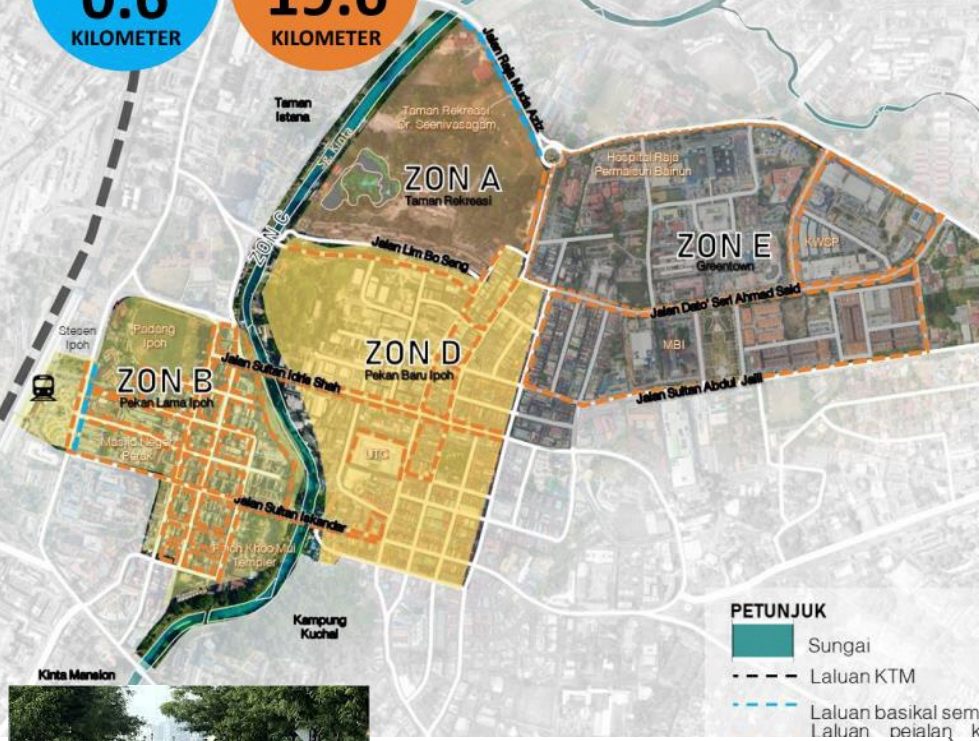


# WALKABLE CITY



**LALUAN BASIKAL**  
**0.6**  
KILOMETER

**LALUAN PEJALAN KAKI**  
**19.6**  
KILOMETER



## PROPOSAL

**Connectivity & accessibility**  
Use the back alleys as a network of pedestrian walkways and bicycles with parking safety components

1

**Fields, Parks & Rivers**  
Use the coastal green space existing river as a resting place for pedestrian walkway users and bicycle

2

**Support Facilities**  
Adds board placement information and directional signals along the route

3

**Security**  
Set up a road divider at road sharing area

4

**Sustainable Development, Green Design**  
Use the tree shading along the walkway legs and bicycles

5

**Place Making & Design Routes**  
need to take into account hipster components, heritage, health

6

**Policy, Awareness, Enforcement, Program**  
Put an appropriate speed limit

7





# ACHIEVEMENTS

1. PLATINUM AWARD ORGANIZED BY MALAYSIAN INSTITUTE OF PLANNER (IPOH CAR FREE DAY PLACE AWARDS 2019)
2. DIAMOND RECOGNITION LOW CARBON ZONE AWARD (CENTRE AREA PLANNING)
3. BANDAR MAMPAN CATEGORY AWARD 2019 ( MURNINETS)
4. NATIONAL BUILDING ENERGY LABEL AWARD 2019- CATEGORY: OFFICE

