

International Urban Cooperation Asia

Component 2: Final Workshop in Malaysia

Hang Tuah Jaya

16 November 2020

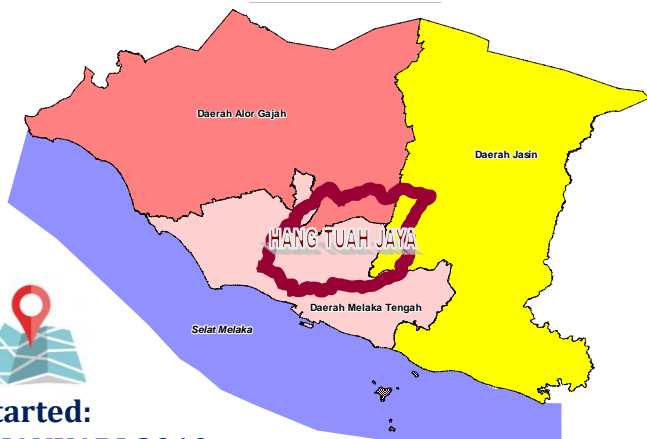


[CITY PROFILE]



**Vision: 'HANG TUAH JAYA
LOW CARBON CITY 2030'**

MELAKA MAP



**Started:
1 JANUARI 2010**



Area:
**35,733.04 ACRE /
144.6 KM SQUARE**

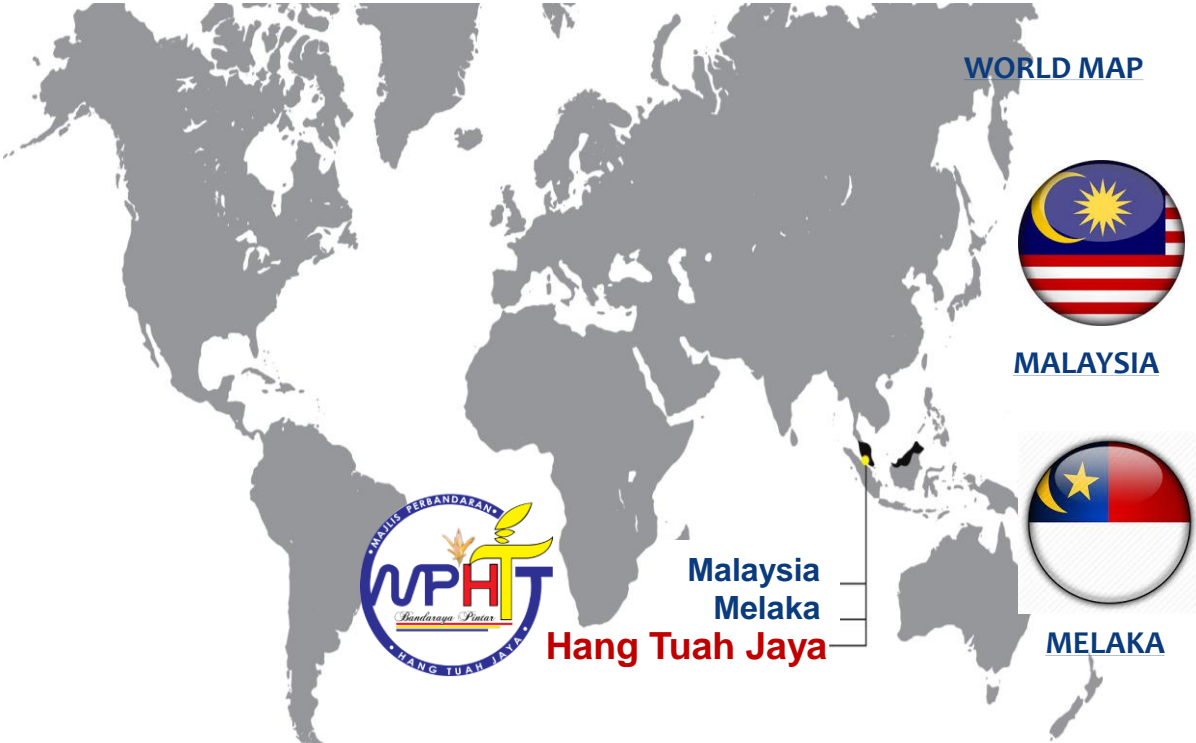


Economy (GDP) 2018:
**7,897 (RM millions
2010 prices)**



Population:
190,529 (2018)

Sector Economy:
**SERVICE. INDUSTRY.
TOURISM.**



WORLD MAP



MALAYSIA



MELAKA

**Malaysia
Melaka**

Hang Tuah Jaya

Climate Overview

	Current Observation	Projection for 2030	Projection for 2050
Average Annual Temperature	26.2 °C	27.1 °C (+3.3%)	27.7 °C (+5.7%)
Average Annual Rainfall	1,891 mm	1,998 mm (+5.6%)	2,068 mm (+9.4%)

Reference – Assumption Remarks: Southern Region (NC3 & BUR2, 2018, pg.87)

[CITY COMMITMENT]



“As City Manager, we committed to support national vision to reduce carbon emission intensity by 45% per GDP per capita by year 2030 ”

*“(As City Manager, we committed to **reduce 665,000 tCO₂e** by 2030 relatively to the BAU scenario; to achieve the level of **0.072 intensity Carbon per GDP** (reduction of 45%) to support national vision and commitment”)*

Shadan Othman,
President,
Hang Tuah Jaya Municipal Council



GHGI Launching
Ceremony IGEM 2019



Sharing Session on Low
Carbon City Hang Tuah Jaya



'Waste to money program'
(October 2020)



Technical Meeting CRVA
(October 2020)



Hang Tuah Jaya Hub-
community Project

[CITY JOURNEY]



AGENDA Hang Tuah Jaya 2030

carbon reduction

carbon offsetting

HTJ Local Plan 2016-2025

HTJ Local Plan 2026-2040

HTJ Local Plan 2041-2055

Assessment & Evaluation
[2023, 2026, 2029]

2010

2013

2018

2030
LOW CARBON CITY

2050
CARBON
NEUTRAL CITY

Launching of Hang
Tuah Jaya Municipal
Council
[1 January 2010]

[2012] Kick-off Low
Carbon City
Framework project
for Hang Tuah Jaya

[2013] Establish 1st
baseline carbon
emission for Hang
Tuah Jaya Zone

[2018] City-wide
Greenhouse Gas
Inventory Report Hang
Tuah Jaya - IPCC

[2020] Climate Action
Plan for Hang Tuah
Jaya

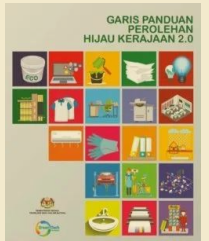
[2020] Localizing SDG
2030

[2021-2030]
Target Carbon
Reduction 45%
Intensity

[2021-2030]
Full implementation
of SDG 2030

[2030-2050]
Pre-discussion /
initial stage

Related Program



[RELEVANT DEVELOPMENT PLAN & POLICIES]



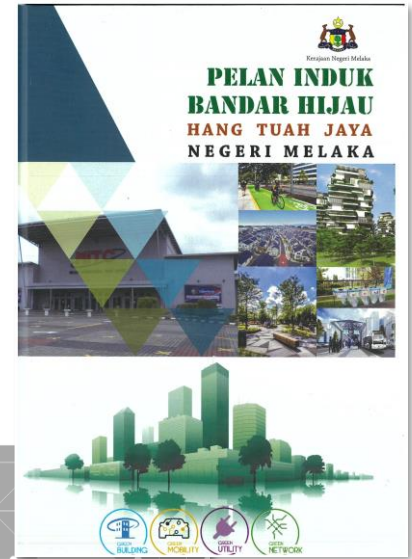
Melaka Green City Action Plan (2014)

Melaka State Climate Action Plan 2020 – 2030 (2019)

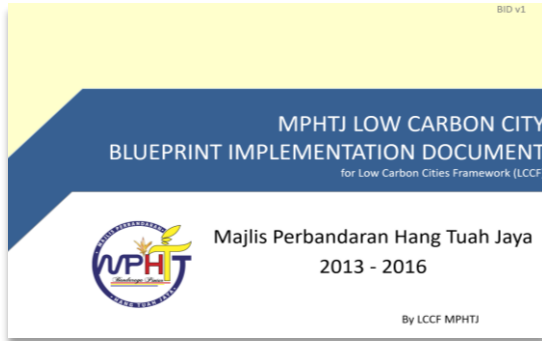


Hang Tuah Jaya Local Plan 2025 (2018)

Pelan Induk Bandar Hijau, Hang Tuah Jaya (2016)



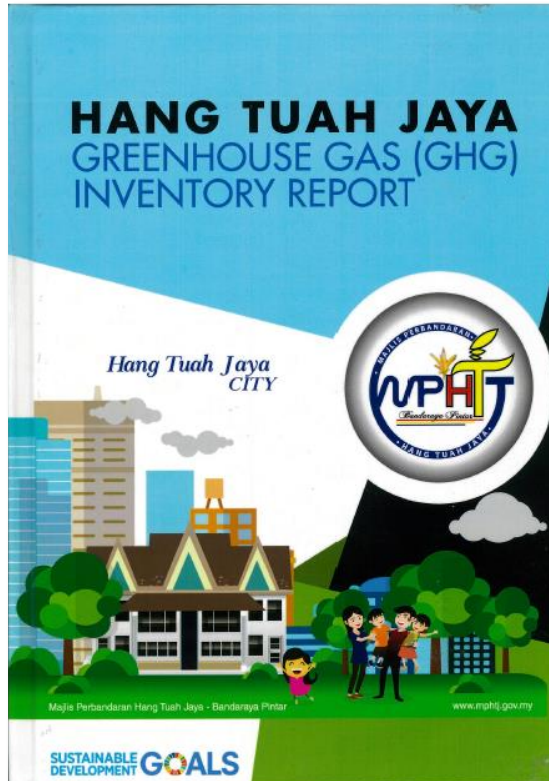
[MAIN DOCUMENT RELATED TO CLIMATE CHANGE]



LCCF: Blueprint Implementation Document (2016)



LCCF: Blueprint Implementation Document (2018)



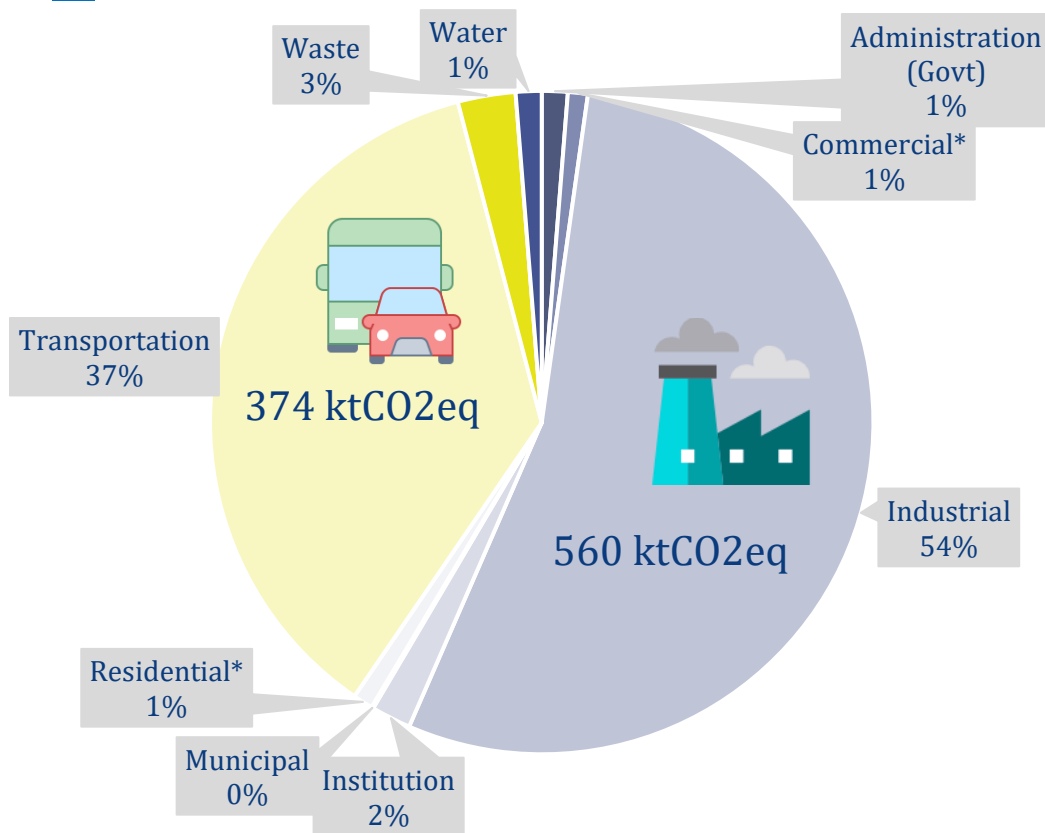
Greenhouse Gas Inventory Report (GHGI) 2018

HANG TUAH JAYA CLIMATE ACTION PLAN 2030 (DRAFT)



Hang Tuah Jaya Climate Action Plan 2030 (Draft) 2020

[HANG TUAH JAYA'S CONTRIBUTION TO CLIMATE CHANGE]



Total GHG Emissions (2018) (ktCO₂eq)

1,030

GHG Emissions per Capita (tCO₂eq)

5.4

GHG Emissions per unit land area (km²)

7,105

Source:

Hang Tuah Jaya Final Greenhouse Gas Inventory Report (2019)

Note:

*With the limitation of data availability, the GHG emissions for Residential and Commercial sector are mainly involve several neighbourhoods and activity centres.

[MITIGATION & ADAPTATION GOALS]



Mitigation Target

45%

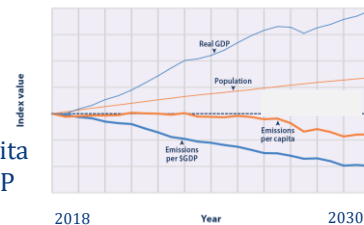
emission intensity reduction by
2030 compared to base year 2018

Year 2030 Scenario:

Population
& GDP



e /capita
e / GDP



“As City Manager, we committed to **reduce 665,000 tCO₂e** by 2030 relative to the BAU scenario; to achieve the level of **0.072 intensity Carbon per GDP** (reduction of 45%) to support national vision and commitment”

Adaptation Goals

Monsoon & Flood (Flash)

Goal 1 Reduce property damage due to monsoon and flooding by 50% by 2030 compared to 2017

Drought

Goal 2 Reduce number of days of water rationing caused by drought by 50% by 2030 compared to 2017

Vector-borne Disease

Goal 3 Reduce the number of dengue cases by 50% by 2030 compared to 2017 level

Re-design the planned action by 'sectoral based' to 'theme based'

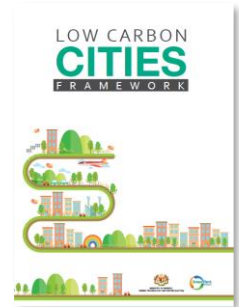
THEME BASED Actions

1. **Green Economy** (Industry, Tourism)
2. **Sustainable Public Transport and Logistic**
3. **Climate Responsive Infrastructure**
4. **Sustainable Community & Governance**



Low Carbon City Framework
(LCCF+S)

Environment
Transport
Building
Infrastructure
+
Society



[PLANNED ACTIONS]



- I1: Conduct feasibility study on industrial symbiosis (including Waste-to-Wealth) for existing industrial area
- I2: Encourage industry to use grey water for non-potable purposes
- I5: Establish tax incentives and low-interest loans to attract and promote green industry
- I6: Establish tax incentives for energy efficiency investments in the production process
- S1: Promote low carbon tourism products and services to reduce environmental impacts
- I7: Promote ISO 14000 certification in industry
- B5: Install energy efficiency (EE) equipment and smart meters on commercial buildings as an energy saving initiative
- B2: Promote the use of natural ventilation by implementing MS1525
- B3: Promote Photovoltaic (PV) for new buildings
- B4: Ensure new developments are integrated with rainwater harvesting systems and grey water recycling for non-potable usage
- B6: Promote green building assessment
- B10: Promote solar water heaters in new developments
- I4: Install solar-powered street lights throughout the municipality
- B1: Promote Photovoltaic (PV) and solar thermal systems on MPHTJ assets

- E2: Promote urban farming and involve the community
- I3: Establish decentralized and community-oriented composting sites
- I9: Implement a 'pay-as-you-throw' waste system
- S4: Promote community recycling of used cooking oil
- S2: Set up Low Carbon Residential association
- S3: To raise community awareness on prevention of dengue
- B9: Encourage major commercial/institution establishments to post energy efficiency data publicly at entrance



- T1: Implement Transit Oriented Development (TOD)
- T2: Provide comprehensive public transport network
- T8: Provide real-time online information about bus locations and arrivals
- T3: Provide user friendly pathways for pedestrians and cyclists
- T4: Increase potential activity centers for pedestrian zones
- T5: Provide a 'Park-and-Walk / Cycle' zone as an initiative for drivers to park outside commercial areas

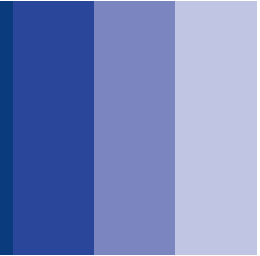
- T6: Run District buses on recycled oil from food courts
- T7: Promote cycling as a healthy and environmentally friendly form of transport
- T9: Convert District vehicle fleet to hybrid and electric
- T10: Establish unlimited free parking for low-carbon vehicles

- E1: Improve monitoring and development control around Flood risk areas
- B8: Promote measures to make homes safer in flood conditions
- I8: Encourage premises in flood prone areas to create response plans for flash flooding

- E3: Protect all existing green spaces and establish new multi-purpose green spaces that cannot be developed
- E4: Organize 'One Resident, One Tree' program
- E5: Plant trees to increase shade in downtown areas
- E6: Launch corporate sector adoption of green spaces
- B7: Implement new policies to incentivize construction of green roofs and green vertical landscaping

RESULTS

Question 1:
How has IUC Asia supported your
City in achieving the SDGs and
Paris Agreement goals?



“The collaboration help to mainstream the Climate Change mitigation and adaptation (initiatives /program /project) at the local level and link up with the 17 SDG goals and national commitment in Paris Agreement”

The support consists:

Knowledge transfer, training dan guidance to the city officers

Introduction and briefing about CRVA, CRF and others

Provide the platform for networking and access

Cities need the access to the international level to learn and share the best practices and the opportunity of financial support that available

Assistance on target / goals development

Mitigation: 45% reduction carbon intensity by year 2030 (17% absolute amount) *source: Hang Tuah Jaya GHGI report 2019

Adaptation: CAP and CRVA identify the climate risk for Hang Tuah Jaya; Flash Flood, Drought & Vector borne disease

Verify and recognize the city efforts

Common reporting framework (CRF) dan CDP Platform help a lot for city to share the current effort and get some recognition

RESULTS

Question 2:
How has the Climate Action Plan
played a part in your city's
contribution to the Malaysia's NDC?

NDC Malaysia intends to reduce its greenhouse gas (GHG) emission intensity of GDP by 45% by year 2030 relative to the emission intensity of GDP in 2005. This consist of 35% on an unconditional basis and further 10% is condition upon receipt of climate finance, technology transfer and capacity building from developed country

CAP support the GHGI report to achieve the target of carbon reduction for Hang Tuah Jaya

City of Hang Tuah Jaya has identified the current level of GHG on year 2018 was 1,030 kTCO₂e and have set target to reduce 45% intensity by year 2030. To make sure the target was workable ad realistic, the CAP was design to underline the strategies and priority list for the action that can contribute to the carbon emission reduction. The amount of carbon reduction will contribute to the NDC

CAP as a comprehensive plan to tackle the issues of climate change in Hang Tuah Jaya

CAP will accelerate the implementation of climate change mitigation & adaptation at local level. The action plan will help and guide the city to priorities the action. Also highlights the risk for the cities in future.

CAP as a financial support document / instrument for Hang Tuah Jaya (referring to NDC)

CAP will help Hang Tuah Jaya City to apply and secure the financial support on climate finance, technology transfer and capacity building for project related to the resilient, sustainable and low carbon

RESULTS

Question 3:

How will the CAP development help meet the GCOM commitments

- Hang Tuah Jaya Climate Action Plan (CAP) was develop according to the international standard where use the Global Covenant of Mayor Common Reporting Framework (CRF) as mentioned in the GCOM commitments.
- This report will help Hang Tuah Jaya to strengthen the fundamental aspect at the city level (include capacity building, awareness etc) to accelerate the climate action implementation on coming years.
- By complete this CAP report, Hang Tuah Jaya can do periodically monitoring and reporting at CDP platform and join the other cities on climate change action

OUR CHALLENGES

1 DIFFICULTY ON DEVELOPMENT CONTROL

As a landlocked district, a challenge for the city to regulate over the upstream activities.

2 SHORTAGE OF FUNDING FROM BUSINESS COMMUNITY

Involvement of the business community and private sectors.

3 TO SUIT WITH THE INTERNATIONAL FINANCIAL MECHANISM

- Limitation and barrier to suit with several financial mechanism (such as green bond, loan & co-financing)

4 DISAGGREGATE POTENTIAL REDUCTION

Cannot estimate potential reduction by each planned actions.

5 WEAK INTEGRATION WITH SDGS & CLIMATE CHANGE WAS DYNAMIC

The relationship of planned actions from climate action plan (CAP) with Sustainable Development Goals (SDGs) 17 Goals. The nature of approach / solution for climate change was so dynamic (with always new concept was introduce).

LESSONS LEARNED

1

HOLISTIC CLIMATE CHANGE KNOWLEDGE

The discussion of climate change is not always about GHG emissions but also climate related disaster.

2

BENCHMARKING CLIMATE ACTIONS PRACTICES

Interesting to note and learn from other cities, including other global cities.

3

VARIOUS AVAILABILITY OF FINANCIAL SUPPORT MECHANISM

- Interesting to learn about financial support mechanism for climate change

4

COMMON REPORTING FRAMEWORK

A transparent and global recognised methodology draws the participation of stakeholders and local community.

5

LEADERSHIP

Strong support from the president and state government accelerate the climate change activities.

NEXT STEPS

1 DISSEMINATE INFORMATION WITH IMPLEMENTATION AGENCY

To communicate with the relevant agency to implement the planned actions from the CAP.

2 IDENTIFY QUICK WIN PROJECTS

Based on the list of planned actions suggested by the CAP, certain projects can be implemented immediately.

3 LOOKING FOR FINANCIAL SUPPORT OPPORTUNITIES

- To work with GCOM and IUC on financial support that is available to apply

4 MAINSTREAMING OF CAP INTO STATUTORY LOCAL PLAN

The findings from the CAP can be incorporated in the legal framework of the development plan.

5 INTEGRATE CAP WITH SDGs

To link the planned actions of CAP with SDGs 17 Goals.

THANK YOU



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HANG TUAH JAYA CITY . MELAKA . MALAYSIA