

# MELAKA INSPIRING CLIMATE ACTION

Accelerating Climate Action Through  
Local And Regional Commitment

RT. HON. DATUK SERI UTAMA IR. HJ. IDRIS BIN HJ. HARON  
THE CHIEF MINISTER OF MELAKA



# UNESCO WORLD HERITAGE SITES



# SNAPSHOT ON MELAKA



**TOTAL AREA**  
**1,654.14 sq.km.**  
 165,414 hectares



## GOVERNANCE



Majlis Bandaraya Melaka Bersejarah (MBMB)



Majlis Perbandaran Hang Tuah Jaya (MPHTJ)



Majlis Perbandaran Jasin (MPJ)



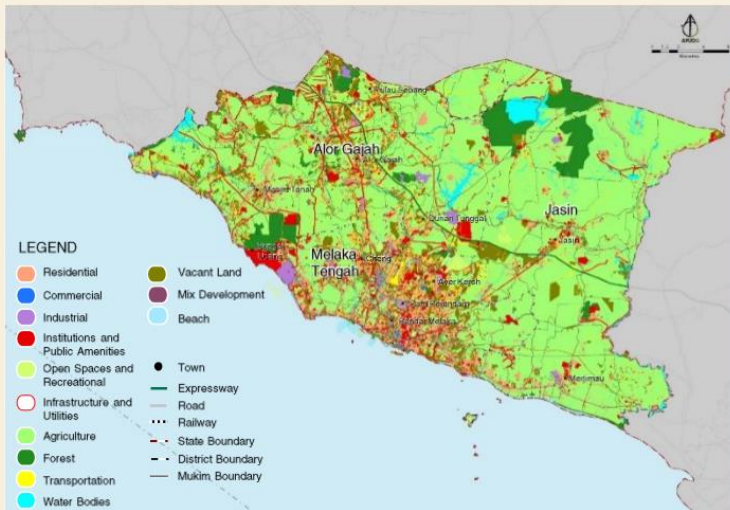
Majlis Perbandaran Alor Gajah (MPAG)

**2x** larger than **SINGAPORE**  
 (719 sq.km)

**14x** larger than **MACAU**  
 (115.3 sq.km)

**0.6x** smaller than **GREATER KL/KV**  
 (2,843 sq.km)

## EXISTING LAND USE



## BREAKDOWN OF KEY EXISTING LAND USAGE, 2015



**19.8%**  
 BUILT-UP AREA



**63.5%**  
 AGRICULTURE



**5.33%**  
 FOREST

## POPULATION PROFILE 2016

**908,200**  
 PEOPLE

**2.8%**  
 OF MALAYSIA



**68.9%**  
 WORKING AGE  
 15-59 YEAR



**23.4%**  
 CHILDREN  
 0-14 YEAR



**7.5%**  
 ELDERLY  
 65+ YEAR

Source: PLANMalaysia, 2016

Source: Department of Statistic Malaysia, 2016

## GHG Emission by Sector in Melaka State for 2014

Sector	GHG emission (t CO <sub>2</sub> e)	Share (%)
<b>Stationary Units</b>	<b>2,724,182</b>	<b>62.8%</b>
Residential Buildings	579,039	13.4%
Commercial/Institutional Buildings and Facilities	559,524	12.9%
Manufacturing Industry and Construction	1,544,352	35.6%
Agriculture, Forestry and Fishing Activities	41,266	1.0%
<b>Mobile Units</b>	<b>1,201,472</b>	<b>27.7%</b>
On-Road Transportation	1,180,653	27.2%
Railway	6,455	0.15%
Aviation (Landing and Take Off)[1]	14,365	0.3%
<b>Waste</b>	<b>363,657</b>	<b>8.4%</b>
Solid Waste Disposal	<b>363,651</b>	8.4%
Biological Treatment of Waste	6.1	0.0%
<b>Agriculture, Forestry and Land Use (AFOLU)</b>	<b>45,768</b>	<b>1.1%</b>
Livestock	45,768	1.1%
<b>Total</b>	<b>4,335,080</b>	<b>100.0%</b>



***Panoramic view of Melaka city***

Pha

Pha

ORANG UTAM  
HOUSE



جانب شمال  
JALAN PULANG BES  
NO. 100



***In 2016, we have clocked 16.28 million visitors to Melaka.***

***Jonker Walk, Melaka***



*Stadhuys, Melaka*



**Since 2013, Melaka received RM 22 billion worth of investments**



***Infineon Technologies, Melaka***

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*Melaka was once hailed as the  
“Venice Of The East”*



*Melaka in 13<sup>th</sup> Centuries*



*More than 80 international languages were spoken at the river mouth of Melaka*

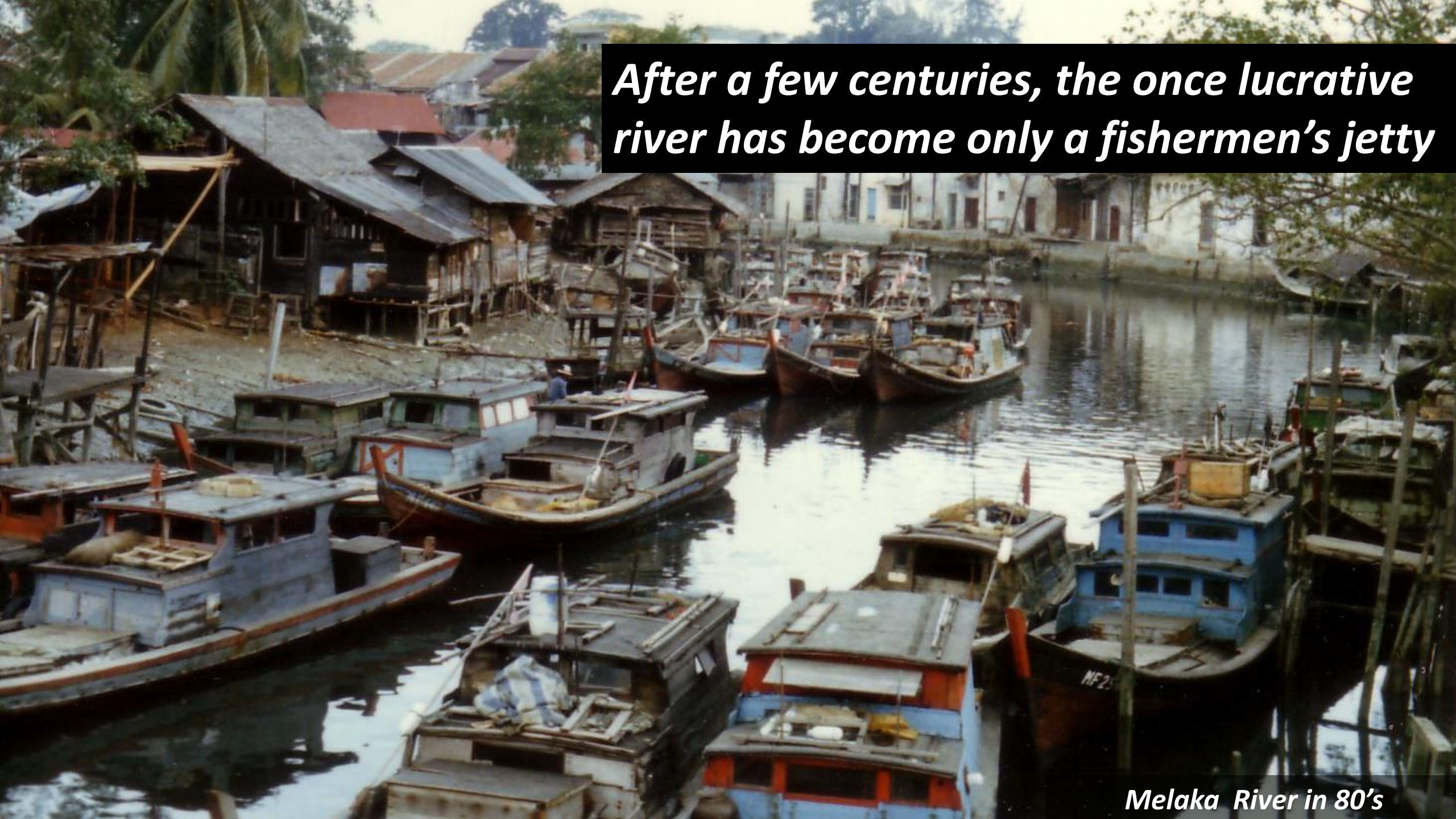
*Melaka in 13<sup>th</sup> Centuries*





*Melaka River in 80's*

*After a few centuries, the once lucrative river has become only a fishermen's jetty*



*Melaka River in 80's*

*The Melaka river has undergone a rehabilitation and transformed tremendously.*



*Melaka River Cruise*





***Hard Rock Café @ Melaka River***



**Melaka River**



**More than one million tourist cruises along Melaka river annually.**



*Melaka River Cruise*

*Since 2013, Melaka received RM 22 billion worth of investments*



*Infineon Technologies, Melaka*

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***“Malaysia is adopting an indicator of a voluntary reduction of up to 40% in terms of emissions intensity of GDP by the year 2020 compared to 2005 levels”***

**Prime Minister of Malaysia**

**COPENHAGEN COP15**

# MALAYSIA

BIENNIAL UPDATE  
REPORT TO THE UNFCCC



*Malaysia intends to reduce its greenhouse gas emissions intensity of GDP by 45% relative to the emissions intensity of GDP in 2005 by 2030.*

*Conditional on receiving means of implementation (finance, technology development and transfer and capacity building) from developed countries.*

*UNFCCC COP 22 Paris, 2015.*





***Melaka established a vision to become a Green Technology State by the year 2020***



***Melaka Green Technology Blueprint based on Urban Environmental Accords (UEA)***

**UEA MELAKA SUMMIT 2017**





# PERBADANAN TEKNOLOGI HIJAU MELAKA

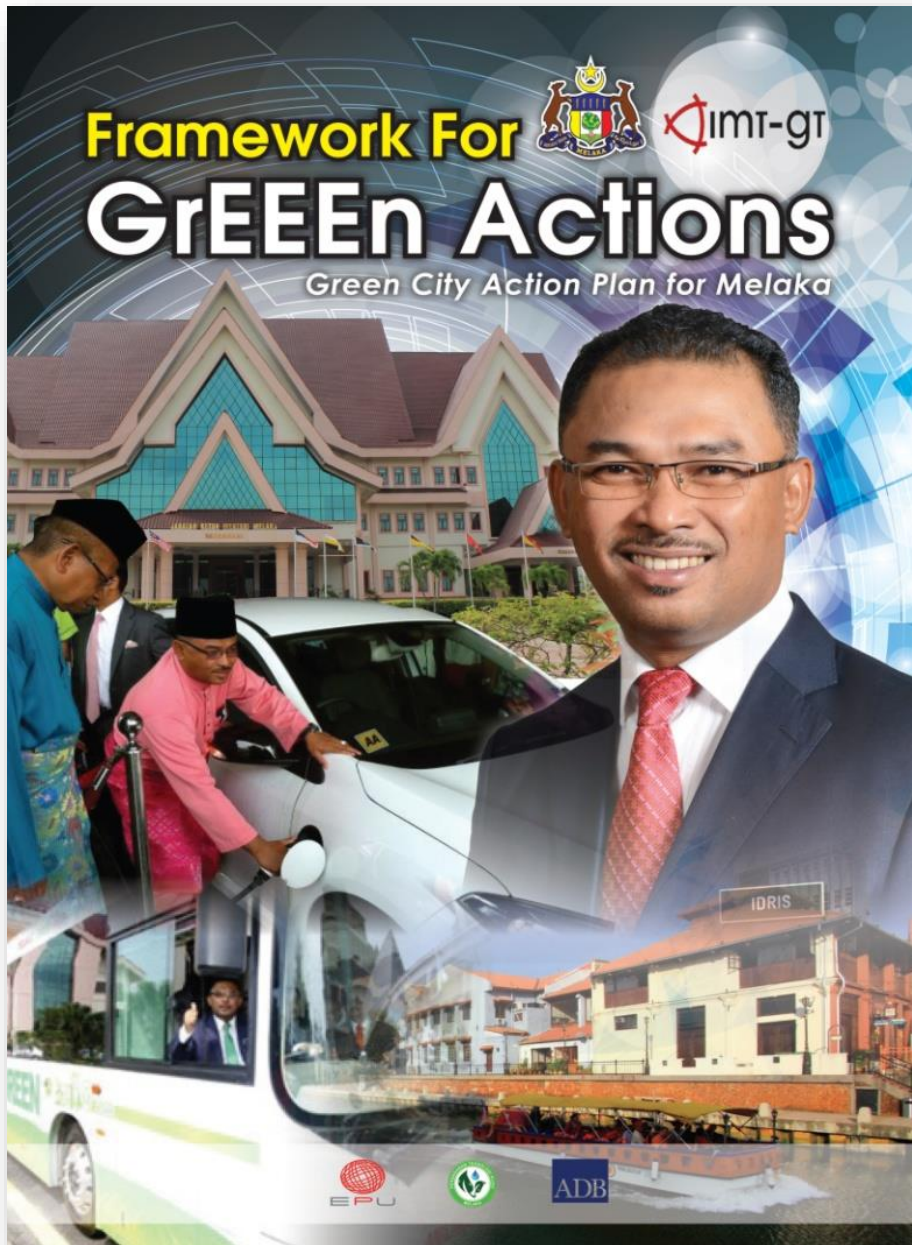
[www.melakagreentech.gov.my](http://www.melakagreentech.gov.my) | [admin@melakagreentech.gov.my](mailto:admin@melakagreentech.gov.my)



***Melaka as the pilot state under the IMT-GT Green Cities Initiative along with Medan And Batam in Indonesia as well as Songkhla and Hat Yai in Thailand***



***1<sup>st</sup> IMTGT Green Council Meeting (1<sup>st</sup> March 2016)***



# 35 THEMATIC ACTIONS

## Custom Categories (Achieving E.E.E.)

The GCAP operationalizes the 3E approach through the following thematic areas that are discussed in more detail in the subsequent chapters.

### 8 ACTIONS

#### 1 WATER MANAGEMENT

Goal: Protect and enhance the quality of surface and groundwater bodies in Melaka

### 6 ACTIONS

#### 2 ENERGY EFFICIENCY & RENEWABLE ENERGY

Goal: Reduce GHG emissions through efficiency and increase in use of renewables in the generation and usage

### 6 ACTIONS

#### 3 GREEN TRANSPORTATION

Goal: Increase opportunities for alternative modes of transportation and reduce GHG emissions resulting from vehicular use

### 6 ACTIONS

#### 4 ZERO WASTE

Goal: Put Melaka on the path to become a "zero-waste" state and reduce waste-related GHG emissions

### 5 ACTIONS

#### 5 CULTURAL HERITAGE & TOURISM

Goal: Promote sustainable tourism to balance needs of visitors with those of residents while ensuring preservation of cultural heritage

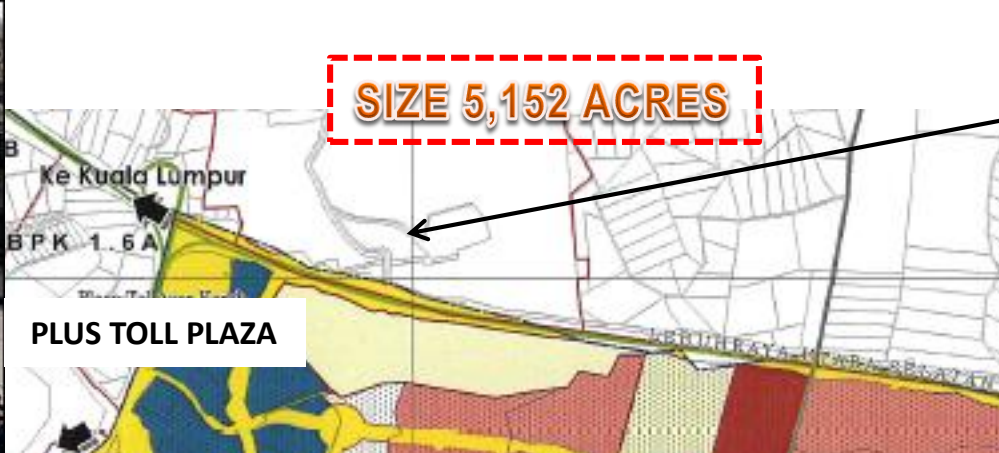
### 4 ACTIONS

#### 6 URBAN FORESTRY & AGRICULTURE

Goal: Protect forests and areas with rich biodiversity, and improve agricultural practices



**KL – SINGAPORE HSR STATION  
(Proposed)**



**SIZE 5,152 ACRES**

**PLUS TOLL PLAZA**

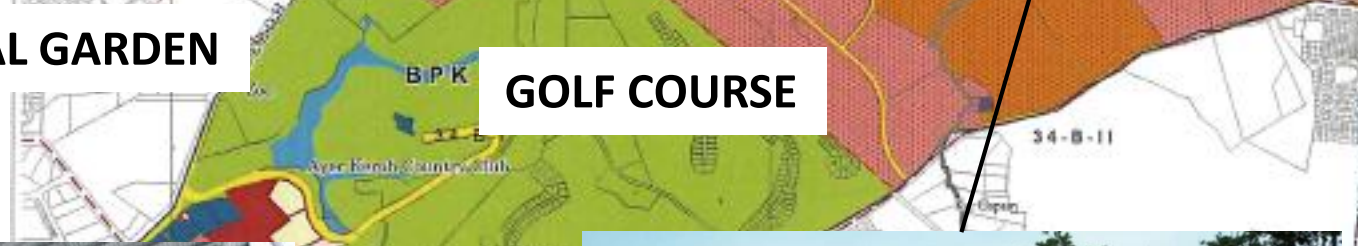


**UTeM UNIVERSITY CAMPUS**

***The Hang Tuah Jaya Green City - a new township that is a living showcase of green urban planning for the future.***



**BOTANICAL GARDEN**



**GOLF COURSE**



**PLUS HIGHWAY**

**8 MW SOLAR FARM PROJECT**



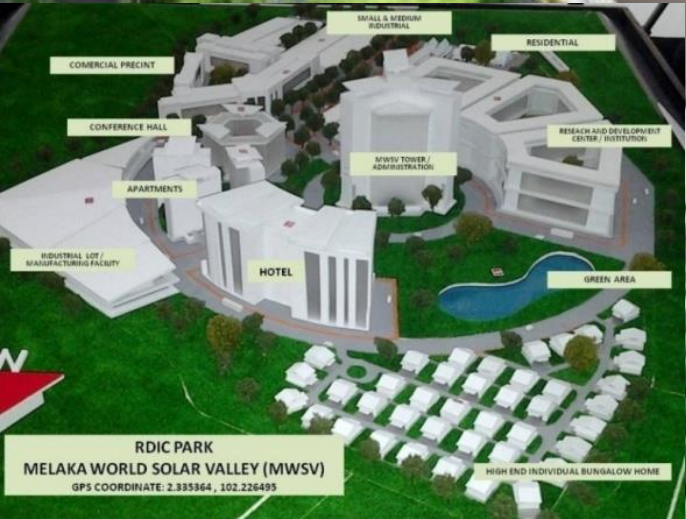
**MITC CITY CENTER**



**PERKESO REHABILITATION CENTER**



# *The Melaka World Solar Valley - set to become a catalyst in solar based industries*





***Melaka has applied the Danish solutions for the energy efficiency program with the aims to save energy in nine state-owned building***





***Energy efficiency buildings through energy performance contracts (EPC)***



**Melaka Green Seal - Melaka own green rating tool for residential and non-residential buildings;**



**METERAI HIJAU MELAKA  
(MELAKA GREEN SEAL)**

**RESIDENTIAL NEW AND  
EXISTING BUILDING**

**REFERENCE GUIDE**



***Smart Grid Project - we have started the pilot project by installing smart meters in Melaka***





***8 MW Solar Farm in Hang Tuah Jaya Green City***

***2 solar farms in Melaka with the total capacity of 13  
Megawatt***



***5 MW Solar Farm in Melaka World Solar Valley***





***Electric Car Charging Station in Melaka***

***We intend to expand electric buses fleet in Melaka***



*Melaka Electric Bus, Melaka Sentral*





*Melaka Bike Share*



*OFO Dockless Bike Share*



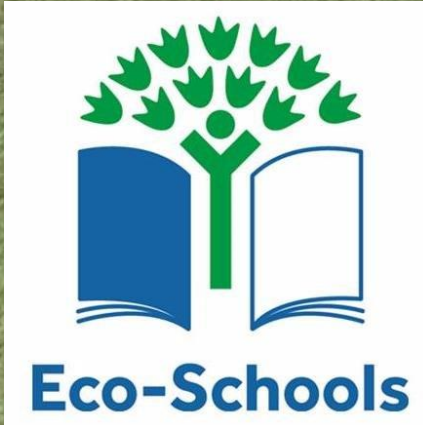
Eco-Schools

# Melaka *Eco-schools* Program



Eco-Schools

**EMBARKS TO NURTURE**  
**ALL THE 314 SCHOOLS** IN MELAKA  
**AS AN ECO-SCHOOLS**



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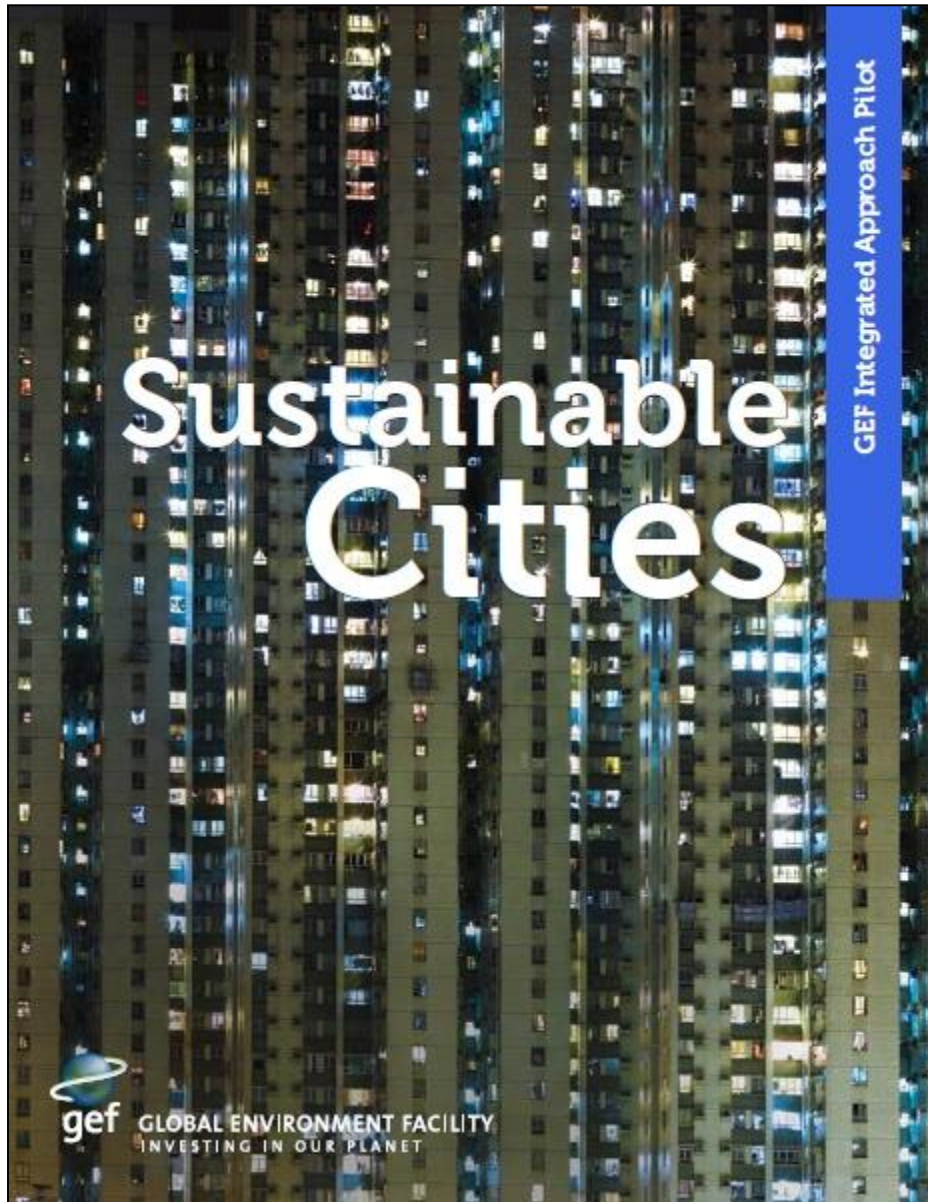
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*Melaka selected among 23 cities from 11 developing countries for the GEF Sustainable Cities Integrated Approach Pilot program*



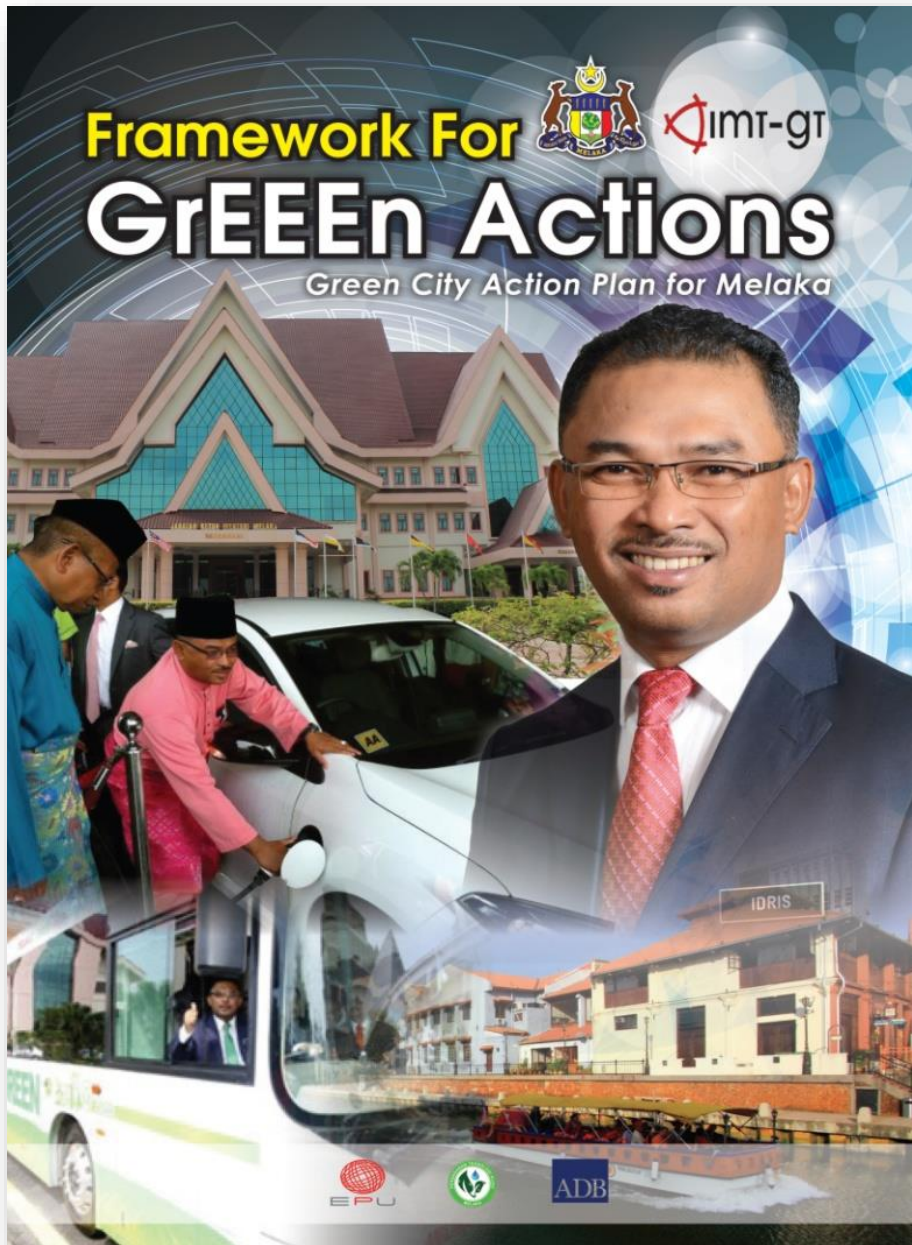
**WORLD BANK GROUP**



**GPSC**

**MiGHT**

*Malaysian Industry-Government Group  
for High Technology*



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***Melaka in a midst of transforming 110,000 units of street lights into Smart LED Street lights with internet connected smart control system***





***Melaka signed a partnership with the ADB for implementation of the initiative through saving model and zero CAPEX from the state government***

***The ADB is currently assisting us in the formulation of Melaka Sustainable Urban Public Transportation Plan***



# OUR NEWEST MEMBER CITIES

Addis Ababa, Ethiopia

Greater Miami and the Beaches, USA



# The ROCKEFELLER FOUNDATION

PIONEERED BY THE  
ROCKEFELLER FOUNDATION

100

RESILIENT CITIES



- Guadalajara (Metro), Mexico
- Haiyan, China
- Honolulu, USA
- Jaipur, India
- Jakarta, Indonesia
- Kyoto, Japan
- Lagos, Nigeria
- Louisville, USA
- Luxor, Egypt
- Greater Manchester, England
- Melaka, Malaysia
- Salvador, Brazil
- Seattle, USA
- Seoul, South Korea
- Tbilisi, Georgia
- Portland, Oregon
- Vancouver, Canada
- Washington, DC, USA
- Yiwu, China

Melaka, Malaysia

Melaka, Malaysia







# 9th SESSION OF THE WORLD URBAN FORUM



FORUM BANDAR SEDUNIA  
**WUF9**  
KUALA LUMPUR • 7-13 FEB 2018

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世界城市论坛

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