MALAYSIAN GREEN TECHNOLOGY
AND CLIMATE CHANGE CORPORATION

LOW CARBON CITIES FRAMEWORK (LCCF)

Low Carbon Cities 2030 Challenge (LCC2030C) Introduction

Local Authorities, Universities, Developers & Partners

July 2024

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LATAR BELAKANG MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION (MGTC)

KEMENTERIAN SUMBER ASLI
DAN KELESTARIAN ALAM

MGTC merupakan sebuah agensi di bawah **Kementerian Sumber Asli dan Kelestarian Alam (NRES)** yang diberi mandat untuk mempercepatkan **pertumbuhan hijau**, memperkasakan **tindakan iklim** dan memupuk **gaya hidup hijau**.

Tiga dasar kebangsaan yang berkaitan peranan MGTC dalam memangkin pertumbuhan hijau negara adalah **Dasar Teknologi Hijau Negara (NGTP)**, **Dasar Perubahan Iklim Negara (NCCP)** dan **Pelan Induk Teknologi Hijau (GTMP)**.

Matlamat utama MGTC adalah untuk **merealisasikan sasaran Malaysia untuk menjadi negara karbon sifar bersih seawal tahun 2050 melalui pengurangan pelepasan gas rumah kaca sebanyak 45% pada tahun 2030 berbanding tahun 2005, meningkatkan jumlah Keluaran Dalam Negara Kasar (KDNK) dalam sektor teknologi hijau sebanyak RM100 billion, dan menjana 230,000 peluang pekerjaan hijau.**

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LOW CARBON CITIES FRAMEWORK & ASSESSMENT SYSTEM

LOW CARBON CITIES FRAMEWORK (LCCF)

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DEFINITION: LOW CARBON CITY

- A Low Carbon City is a city **that implement low carbon strategies** to meet its environmental, social and economic needs.
- The city **measures, manages and mitigates** its carbon emissions to reduce its contribution to climate change.

LCCF:: WHAT IS IT ALL ABOUT?

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION

TO GUIDE STAKEHOLDERS TO LEAD BY EXAMPLE & IMPLEMENT LOW CARBON CITIES EFFORT

All cities in Malaysia: **Municipalities, Developers, Universities**

LCCF →

TARGET: To reduce carbon emission intensity by **45% per GDP per capita by the year of 2030**

OBJECTIVE

- **To encourage & promote the concept of low carbon cities and townships in Malaysia.**
- **To increase the compatibility of cities/townships with their local natural system.**
- **To guide cities in making choice/decisions towards greener solutions.**

LCCF Version 1 launched : 8 September 2011

LCCF Version 2 released October 2017

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HOW DOES THE LOW CARBON CITY LOOKS LIKE?

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION

Renewable Energy for decentralise energy generation

Solar Township/ Buildings

Energy Efficient/ Low Carbon Buildings

Energy & Water consumption reduction

Reduction of Municipal Waste

Transit Oriented Development – reachable by walking and cycling

Lesser/ negligible traffic congestion

Positioning Malaysia in the forefront of low carbon cities development

Urban Environment

Urban Transportation

Urban Infrastructure

Building

Electric Vehicles/ Energy Efficient Vehicles

Efficient & Effective Mass Public Transport

More Green Spaces & Green Connectors

Catalyst of Change and Inspiration to other cities and communities

Plant more high sequestration trees

Low carbon emission

Improve standard of living

Government effort is visible & motivates people to value the Environment

Malaysia's Inspiration

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LOW CARBON CITIES FRAMEWORK

4 Elements for GHG Reductions in Cities ▶ **15** Performance Criteria* ▶ **41** Sub-Criteria

MGTC

* Performance Criteria are measurable strategies to reduce carbon emission through:-
Policy control, technological development, better process & product management, change in procurement system, carbon capture, consumption strategies & others.

Urban Environment

UE

- Site Selection
- Urban Form
- Urban Greenery & Air Quality

Buildings

B

- Low Carbon Building
- Community Service

LOW CARBON CITIES FRAMEWORK AND ASSESSMENT SYSTEM

UI

- Infrastructure Provision
- Waste
- Energy
- Water Management

Urban Infrastructure

UT

- Reduction Use of Private Motorised Transport on Urban Road
- Increase in Public Transport
- Mode Shift from Private to Public Transport and Non-Motorised Transport
- Use of Low Carbon Transport
- Improvement to Level of Service of Road Links and Junctions
- Utilisation of Transit-Oriented-Development (TOD) Approach

Urban Transportation

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15 Performance Criteria

4 Elements for GHG Reductions in Cities

41 LOW CARBON CITIES PERFORMANCE CRITERIA

URBAN ENVIRONMENT

Development within defined urban footprint : 1-1
Infill development : 1-2
Development projects within transit nodes and corridor : 1-3
Brownfield and Grey field redevelopment : 1-4
Hill slope development : 1-5
Mixed-use development : 2-1
Compact development : 2-2
Road and parking : 2-3
Comprehensive pedestrian network : 2-4
Comprehensive cycling network : 2-5
Urban Heat Island (UHI) effects : 2-6
Preserve natural ecology, water body and bio-diversity : 3-1
Green open space : 3-2
Number of trees : 3-3

URBAN INFRASTRUCTURE

Land take for infrastructure and utility services : 1-1
Earthworks management : 1-2
Urban storm water management : 1-3
Construction waste management : 2-1
Industrial waste management : 2-2
Household solid waste management : 2-3
Energy consumption : 3-1
Renewable Energy : 3-2
Site wide district cooling system : 3-3
Efficient Water Management : 4-1

ENERGY

MOBILITY

WATER

WASTE

GREENERY

5 Direct Measured Elements (Under LCC2030 Challenge)

URBAN TRANSPORTATION

1-1: Classified Traffic Volume Urban Road Network
1-2: Vehicle-km of Travel by Modes
2-1: Public Transport Ridership
2-2: Public Transport System Improvement and Coverage
3-1: Modal Share of Private, Public, and Non-Motorised Transport
4-1: Use of More Fuel-Efficient Vehicles for Passenger Vehicles and Green Freight Transport
4-2: Number of Charging Stations
5-1: Performance of Road Links and Junctions
5-2: Average Link Speeds and Journey Speeds
6-1: New Development and Redevelopment Schemes Incorporating TOD Concept
6-2: Walking and Cycling Facilities to Support Access and Mobility to/from Public Transit Nodes

BUILDING

1-1: Active and passive designs
1-2: Operational energy consumptions
1-3: Operational water consumptions
1-4: Preserve existing building stock by retrofitting
2-1: Energy management system
2-2: Facility management

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LOW CARBON CITIES 2030 CHALLENGE

Launched on 23 July 2019 by the Ministry of Energy, Science, Technology, Environment & Climate Change (MESTECC)
now under the Ministry of Natural Resource and Environment Sustainability (NRES)

*LCC2030C is a carbon reduction recognition programme under LCCF

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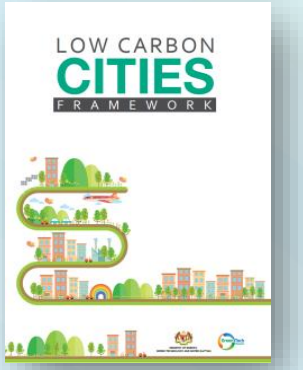
Low Carbon Cities Framework (LCCF) as a policy tool to drive bottom up mitigation initiatives in cities by Local Authorities

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION



V1: 2011; V2: 2017; V3: 2021

OBJECTIVES OF LCCF

- Measure GHG emissions of Cities
- Guide for Local Authorities to transform to Low Carbon Cities
- Capacity building for Local Authorities

LCC 2030 CHALLENGE

LCC 2030 CHALLENGE

- Introduced in July 2019 to accelerate transformation towards low carbon cities
- Establish 200 Low Carbon Zone and 1,000 Low Carbon Partners by 2030

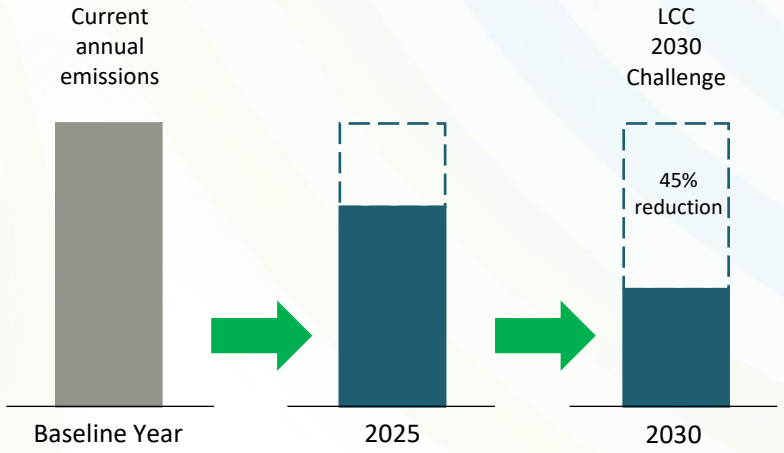
ACHIEVEMENTS (2011 – 2023)

- 70 Local Authorities trained
- 61 Local Authorities actively participating
- 63 Low Carbon Zones
- 149 Low Carbon Partners
- **3,531,476.12** tCO_2eq reduced

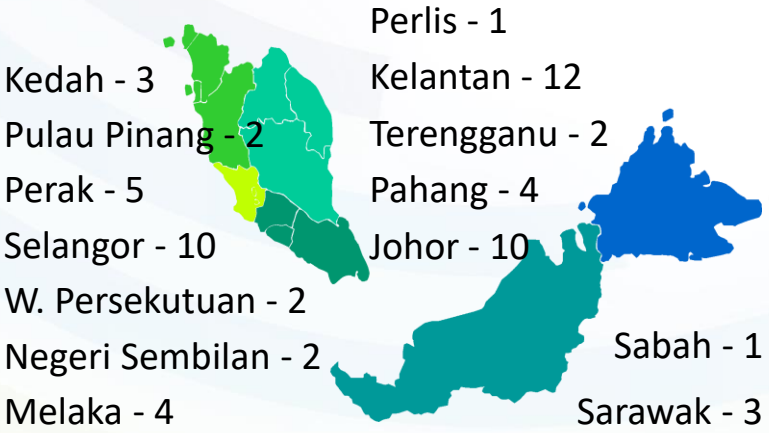
FOCUS ON 5 ELEMENTS

- Maximize building energy efficiency and increasing adoption of renewable energy
- Maximize water efficiency and increase adoption of rainwater harvesting
- Increasing the use of public transport (bus), cycling lanes and walking trails
- Reduce the amount of waste that goes to the landfills
- Maintain or increase the number of trees and green spaces in the city

45% GHG EMISSIONS REDUCTION BY 2030



LOCAL AUTHORITY PARTICIPATION BY STATE



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GOAL: 200 LOW CARBON ZONES & 1,000 LOW CARBON PARTNERS

ABOUT LCC2030 CHALLENGE

LOW CARBON ZONES
Target: 50 by 2021
100 by 2025
200 by 2030

LOW CARBON PARTNERS
Target: 100 by 2021
500 by 2025
1,000 by 2030

WHAT

Accelerate the Transformation Towards Low Carbon Cities

WHY

Cities are responsible for up to 70% of GHG emissions

HOW

Establish Low Carbon Zones in State Capitals & Major Urban Areas

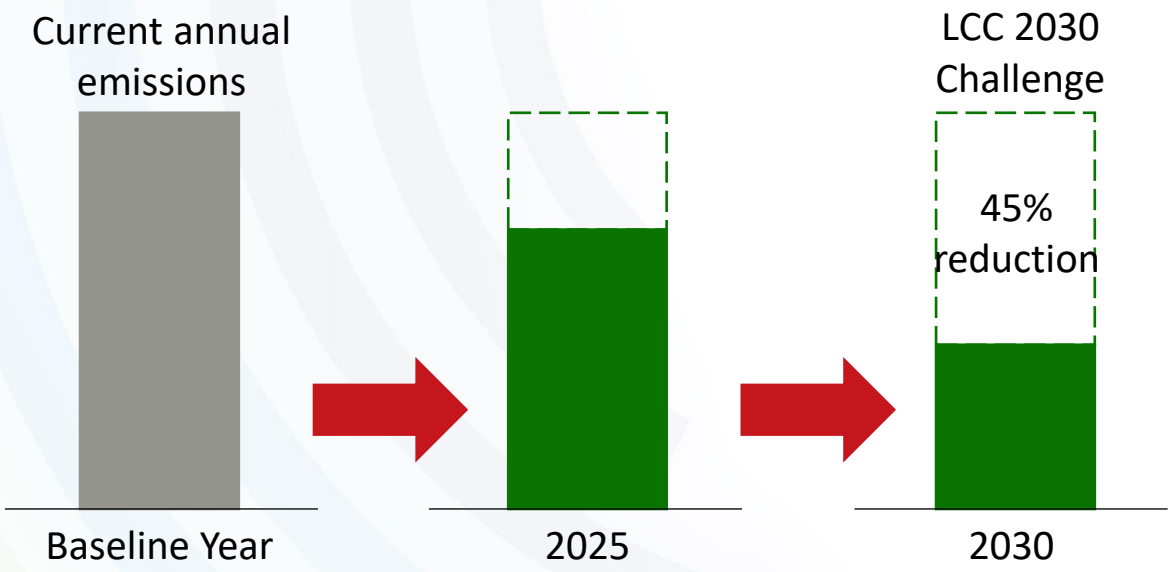
WHO

Local Authorities, Universities, Economic Zones, Companies

ACCELERATING TOWARDS LOW CARBON FUTURE

LOW CARBON CITIES
2030
CHALLENGE

200 Low Carbon Zones (5D) by 2030
1,000 Low Carbon Partners (5D) by 2030



- Since July 2019 to accelerate transformation towards low carbon cities
- Cities are responsible for over 70% of GHG emissions.
- Reducing these emissions is key to addressing climate change and meeting Malaysia's commitment to the Paris Climate Agreement.

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REDUCE EMISSIONS & INCREASE CARBON SEQUESTRATIONS

The LCC 2030 Challenge targets a total of **45% CO_2 emissions reduction** by adopting these measures:

Reducing CO_2 emissions from:

- Energy:
  Maximize building **energy efficiency** and increasing adoption of **renewable energy**
- Mobility:
  Increasing the **use of public transport (bus), cycling, walking** and **other low carbon modes**
- Waste:
  Reduce the amount of **waste that goes to the landfills**
- Water:
  Maximize **water efficiency** and increase adoption of **rainwater harvesting**

Increasing CO_2 sequestration from:

- Greenery
  Maintain or increase the **number of trees and green spaces** in the city

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LCC 2030 CHALLENGE DRIVING FORCE

DRIVER 1

Malaysia's commitment to reduce GHG emissions intensity by 45% by 2030.

DRIVER 2

To limit global warming to 1.5°C, we have to reduce GHG emissions by 45% by 2030.

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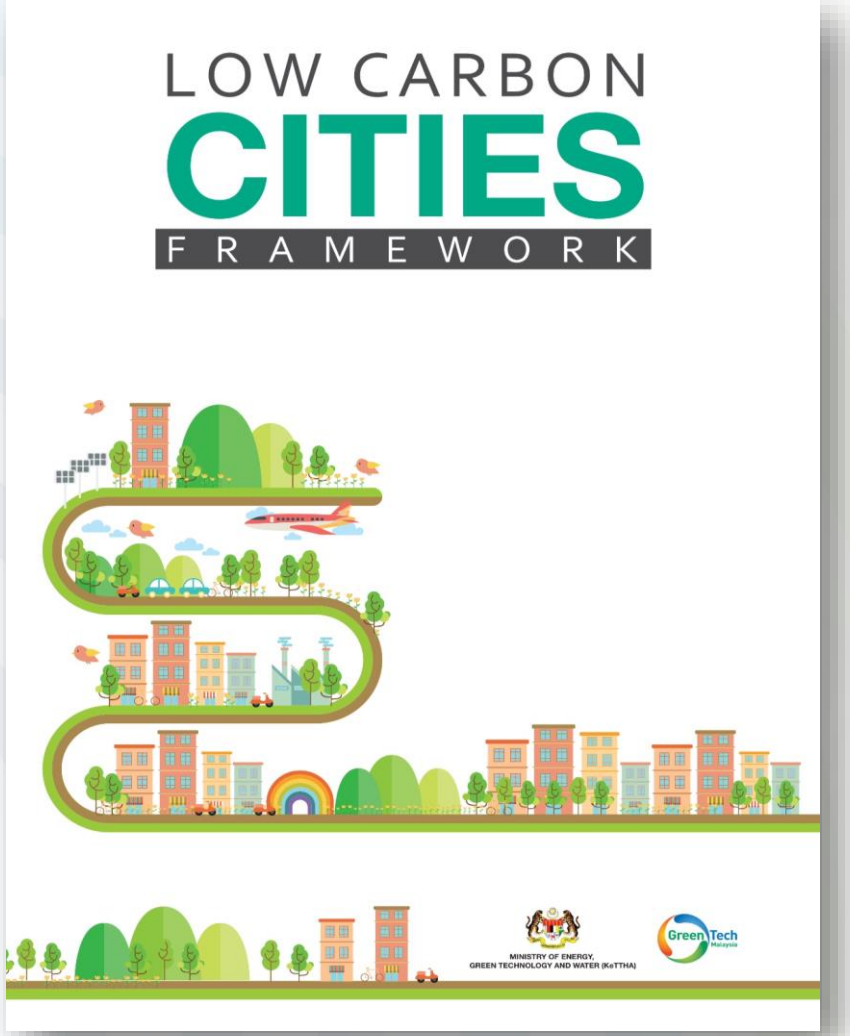
LCC 2030 CHALLENGE REFERENCE

V2: 2017



FOCUS ON 4 KEY ELEMENTS

URBAN ENVIRONMENT

URBAN INFRASTRUCTURE

BUILDING

URBAN TRANSPORTATION

Notes:

1. The Low Carbon Cities Framework (LCCF) document serves as the main reference document for Low Carbon Cities in Malaysia.
2. Main component is Chapter 3 which is a Design Guideline to give an idea of how a Low Carbon City should look like.
3. Use this to assist in developing Action Plan.
4. The LCCF Checklist document is recommended as a guide for new developments.
5. LCCF V3 is in development.

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KEY BENEFITS OF LOW CARBON CITIES

Low carbon cities have multiple direct and indirect benefits to the residents, businesses and the city.

CLEAN

Clean Air
- Reduced air pollution from fossil fuel vehicles

Clean Water
- Reduced pollution that is discharged into the rivers

Clean Land
- Reduced amount of waste that goes to landfills

COOL

Cool Trees
- Extensive greenery and tree cover provide shade

Cool Buildings
- Green buildings and homes retain less heat

Cool City
- The overall urban heat island effect is reduced

HEALTHY

Healthy Environment
- Reduced pollution and contamination of the environment

Healthy People
- Increased outdoor activity in walking and cycling

Healthy Business
- Healthier workforce have increased productivity

LIVEABLE

Affordability
- Reduced cost from increased utility efficiency

Accessibility
- Multiple mobility options and connectivity

Resilience
- Minimal disruption to shocks and stresses

VIBRANT

People Focused
- Smaller city blocks that are pedestrian friendly

Integrated
- Amenities and services to facilitate a green lifestyle

Urban Biodiversity
- The incorporation of nature into the city development

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REAL BENEFITS OF PARTICIPATING IN THE LCC 2030 CHALLENGE

FACILITATE COMPLIANCE

1. *Demonstrate your commitment towards low carbon initiatives by the National and Local Governments*
2. *Future proof your organisation as we adapt to an uncertain climate future*

DELIVER EFFICIENCIES

1. *Identify emissions hotspots to improve resource efficiency and save cost*
2. *Benchmark your environmental performance against that of your portfolio and the industry in general*

ENHANCE YOUR REPUTATION

1. *Stakeholders and consumers are more conscious of the environment and certifying your low carbon efforts will strengthen your reputation.*
2. *Differentiate yourself as an environmentally responsible organization and a leader in the industry.*

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LCC2030 CHALLENGE CATEGORIES

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION

LOW CARBON ZONE

<YOUR LOW CARBON ZONE>
LCC 2030
CHALLENGE

Applicable for

(area ≥ 50 hectares):

- Local Authorities
- Universities
- Industrial & Commercial Parks
- Economic Corridors
- Townships
- Naval & Army Base

LOW CARBON PARTNERS

ENERGY LCC PARTNER PBT 2019 SN:001
MOBILITY LCC PARTNER PBT 2019 SN:001
WATER LCC PARTNER PBT 2019 SN:001
WASTE LCC PARTNER PBT 2019 SN:001
GREENERY LCC PARTNER PBT 2019 SN:001

Applicable for

(area < 50 hectares):

- Commercial Buildings (office, malls, hotels, etc.)
- Hospitals
- Schools
- Ports & Terminals
- Sports Complex
- Parks

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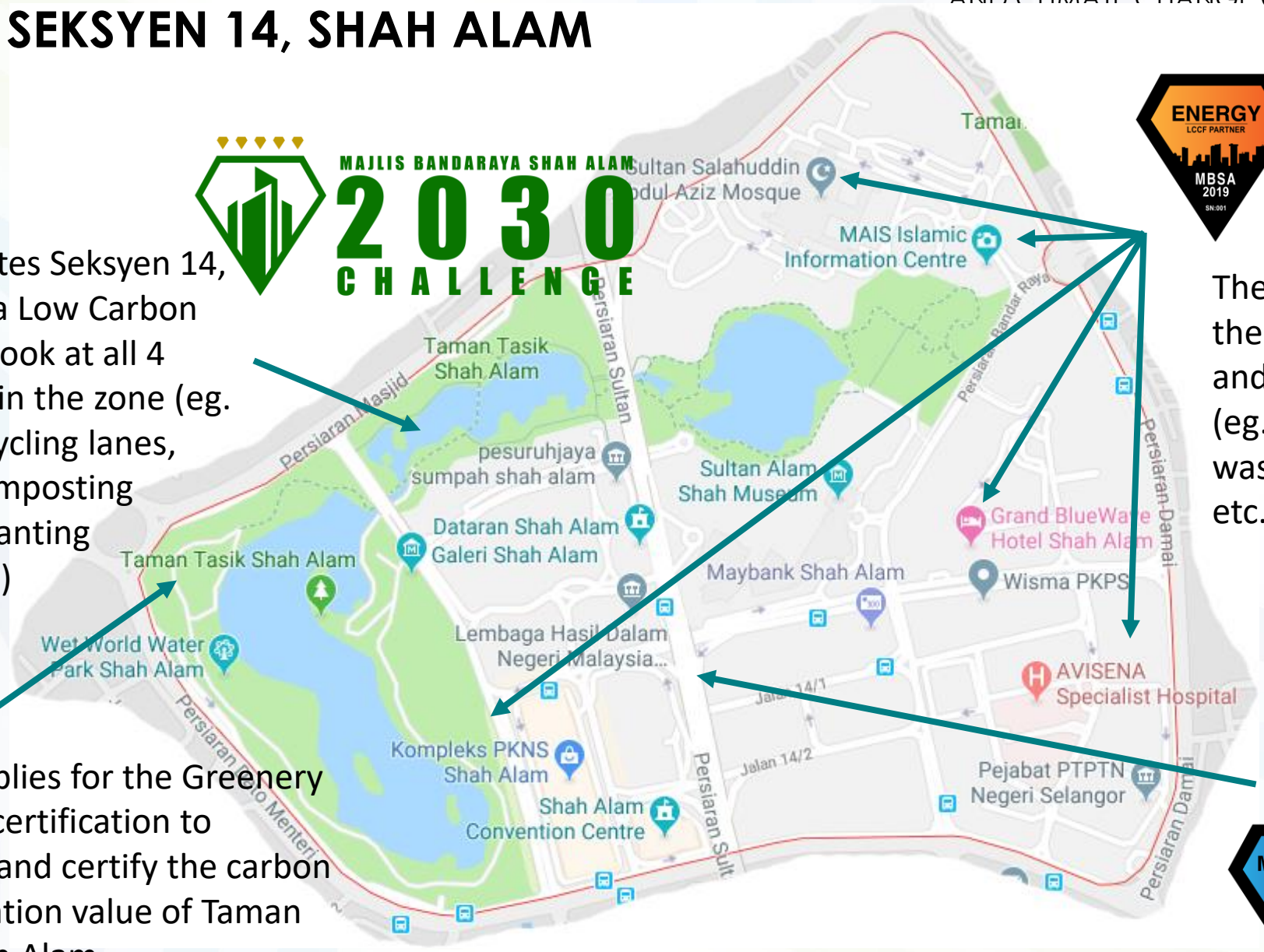
EXAMPLE – SEKSYEN 14, SHAH ALAM

MAJLIS BANDARAYA SHAH ALAM 2030 CHALLENGE

MBSA designates Seksyen 14, Shah Alam as a Low Carbon Zone and will look at all 4 elements within the zone (eg. street lights, cycling lanes, recycling & composting centre, tree planting campaign, etc.)



The individual buildings within the zone applies for the Energy and Waste Element certification (eg. building energy efficiency, waste reduction or recycling, etc.)

Rapid KL starts an electric bus route to service Seksyen 14, and measures the avoided emissions.

MBSA applies for the Greenery Element certification to measure and certify the carbon sequestration value of Taman Tasik Shah Alam.

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FEES

EXISTING CITY CATEGORY

ONE-TIME REGISTRATION FEE

LC Zone (cities, university, industrial zones, etc)	: RM 5,000
LC Partner (building, park, company, etc)	: RM 1,500
LC Special Partner (House of Worship, School)	: RM 750

AUDIT FEE*

Provisional Audit	: RM 2,000
Diamond Audit (1D to 5D)	: RM 3,000

*for LC Special Partner, fees is half of the price stated

DESIGN CATEGORY

ONE-TIME REGISTRATION AND AUDIT FEE

LC Zone	: RM 10,000

SUPPORT & GUIDANCE

LCC Help Desk @ MGTC Meet & Greet Day	: FREE
LCC Clinic Sessions	: FREE
	: RM 10,000

Note:

1. The Low Carbon Cities program is partially funded by the Government of Malaysia.
2. The fees charged is to cover the costs involved in delivering the program.
3. This is to ensure the continuity and sustainability of the program until 2030 and beyond.
4. Free support and guidance by MGTC will always be available as detailed out in the offered programs.

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ANALYSIS & REPORTING

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DATA REQUIRED (GHG PROTOCOL COMPLIANT)

ENERGY

Monthly TNB Bill

GHG Protocol for Cities Reference:

Stationery Energy Sources

Scope 2

Emissions from consumption of grid-supplied energy

WATER

Monthly Water Bill

GHG Protocol for Cities Reference:

-

-

Emissions from consumption of municipal supplied treated water

WASTE

Monthly Waste Disposal

GHG Protocol for Cities Reference:

Waste

Scope 3

Emissions from waste generated within but treated outside of the boundary

MOBILITY

Traffic Count Survey

GHG Protocol for Cities Reference:

Transportation

Scope 1

Emissions from inboundary transport

GREENERY

Landscape Inventory

GHG Protocol Reference:

Forestry

-

Carbon sink

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Project Information Example

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION

State:
Selangor

Local Authority:
MB Shah Alam

City:
Shah Alam

Zone Name:
Pusat Bandar, Seksyen 14

LCC Serial No.:
LCC-Z-B100-01-0001

Organisation Name:
Majlis Bandaraya Shah Alam

Elements: Baseline Year	
Energy	2015
Water	2015
Waste	2015
Mobility	2015
Greeneries	2015

Population Baseline:
8,957

Population Final:
8,957

PBT Area (ha):	29,030.00

Zone Area (ha):	159.89

Percentage Area	0.55%

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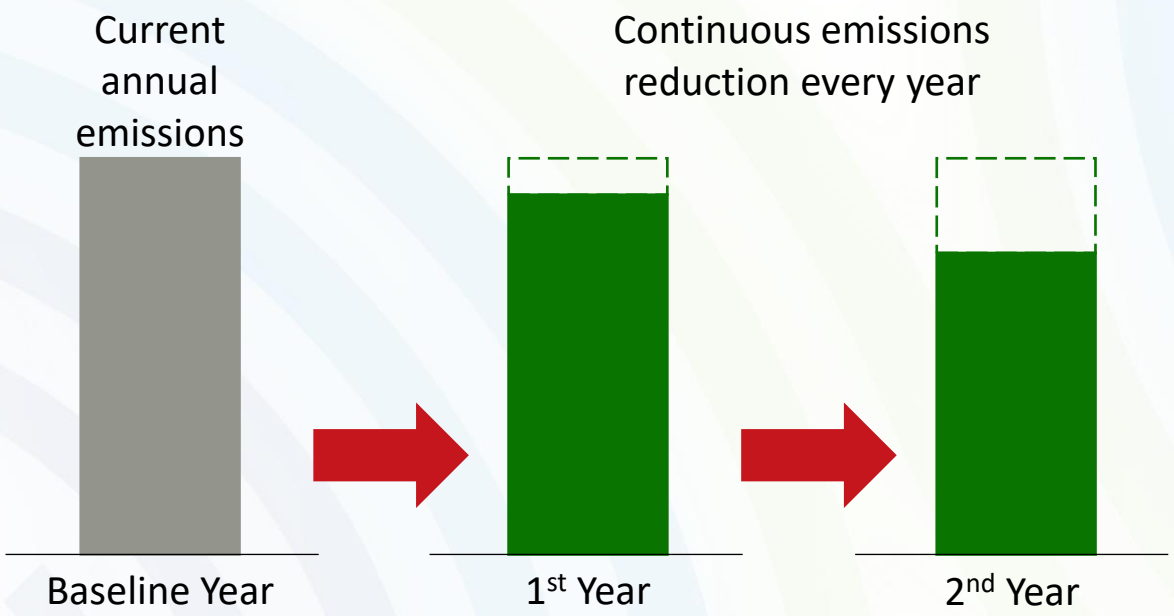
ASSESSMENT & RECOGNITION

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION

ASSESSMENT



4 step process:

MEASURE → MANAGE → REDUCE → CERTIFY

RECOGNITION

Provisional Certificate

Develop baseline and pledge commitment to reduce emissions

Diamond Recognition

Achieve emissions reduction based on the scale below:

1 Diamond	1% reduction
2 Diamonds	5% reduction
3 Diamonds	10% reduction
4 Diamonds	25% reduction
5 Diamonds	45% reduction

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PROVISIONAL CERTIFICATION (EXISTING CITY CATEGORY)

Current annual emissions

Baseline Year

Provisional Certificate
Develop baseline and pledge commitment to reduce emissions

REGISTER
Choose Zone or Partner Category

DEVELOP BASELINE & SUBMIT APPLICATION
Collect data for energy, water, waste. mobility or greenery

LCC PROVISIONAL AUDIT BY MGTC
Visit client premises and verify documents

LOW CARBON CITIES TECHNICAL COMMITTEE
Present and approve for certificate award

AWARD PROVISIONAL CERTIFICATE
Low Carbon Cities Awards Ceremony

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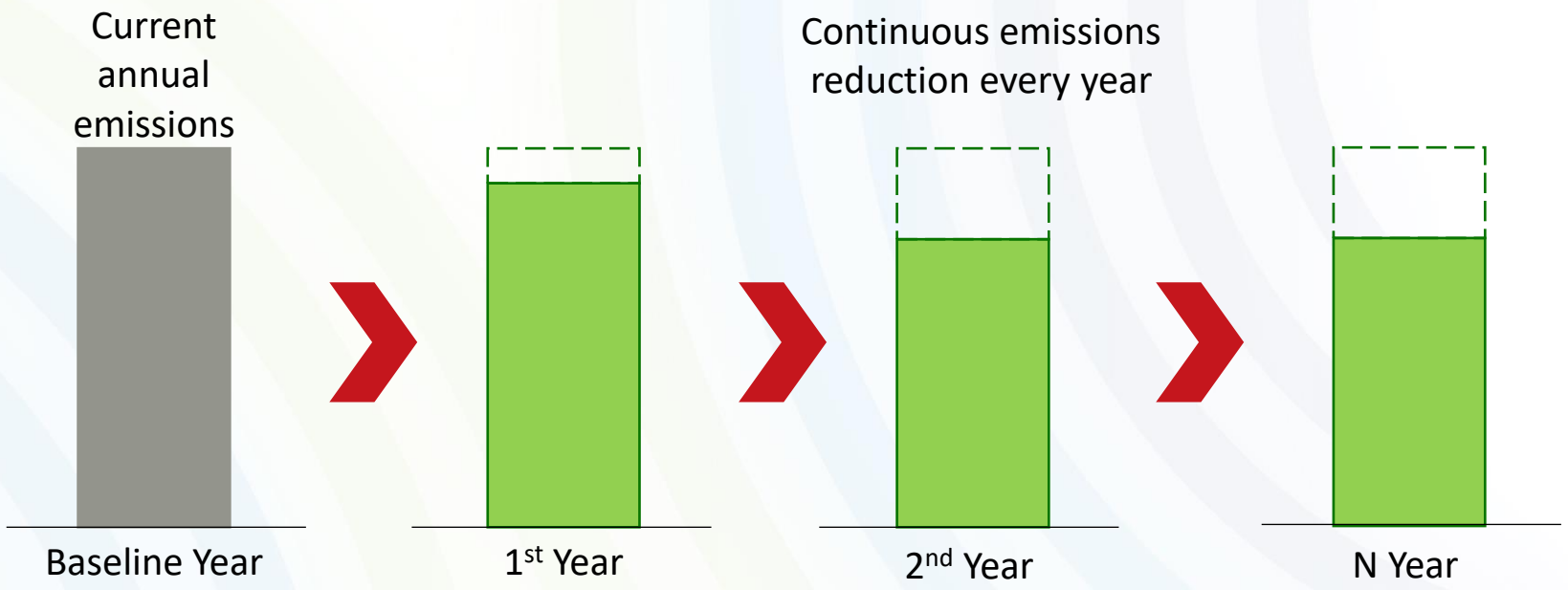
DIAMOND RECOGNITION (EXISTING CITY CATEGORY)



IMPLEMENT LOW CARBON INITIATIVES	MEASURE REDUCTION & SUBMIT APPLICATION	LCC DIAMOND AUDIT BY MGTC	LOW CARBON CITIES TECHNICAL COMMITTEE	LOW CARBON CITIES STEERING COMMITTEE	AWARD DIAMOND RECOGNITION
Implement initiatives to reduce emissions	Collect data for energy, mobility, waste or trees	Visit client premises and verify documents	Deliberate and recommend for recognition award	Present and approve for recognition award	Low Carbon Cities Awards Ceremony @ IGEM

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EXAMPLES OF CARBON ASSESSMENT RESULTS (EXISTING CITY CATEGORY)

Element	Total Carbon Emissions		Reduction Achieved		Diamond Level
	2015 (B) tCO_2/yr	2018 (A) tCO_2/yr	(B-A) tCO_2/yr	%	
Energy	54,801.69	49,687.28	5,123.41	9.35	2 D
Water	165.19	148.16	17.03	10.31	3 D
Waste	2,023.78	1,535.08	488.70	24.15	3 D
Mobility	3,512.06	2,007.23	1,504.83	42.85	4 D
Total Emissions	**60,502.73**	**53,368.74**	**7,133.99**	**11.79%**	
Element	**Total Carbon Sequestrations**		**Sequestration Increased**		**Diamond Level**
	2015 (B) tCO_2/yr	**2018 (A) tCO_2/yr**	**(A-B) tCO_2/yr**	**%**	
Greenery & Water Bodies	6,462.40	6,462.40	0.00	0	
Total Sequestration	**6,462.40**	**6,462.40**			

This is to verify that

<PIHAK BERKUASA TEMPATAN>

for the

<Zone Name>

Low Carbon Zone

has successfully reduced its GHG emissions by **11.79%**

since 2015 across 4 elements which is equivalent to

7,133.99 tCO_2e

and has maintained its carbon sequestration potential

of **6,462.40 tCO_2/year**

ELEMENT	REDUCTION ACHIEVED	DIAMOND LEVEL
ENERGY	9.35%	
WATER	10.31%	
WASTE	24.15%	
MOBILITY	42.85%	

ELEMENT	SEQUESTRATION	DIAMOND LEVEL
GREENERY	Maintained	

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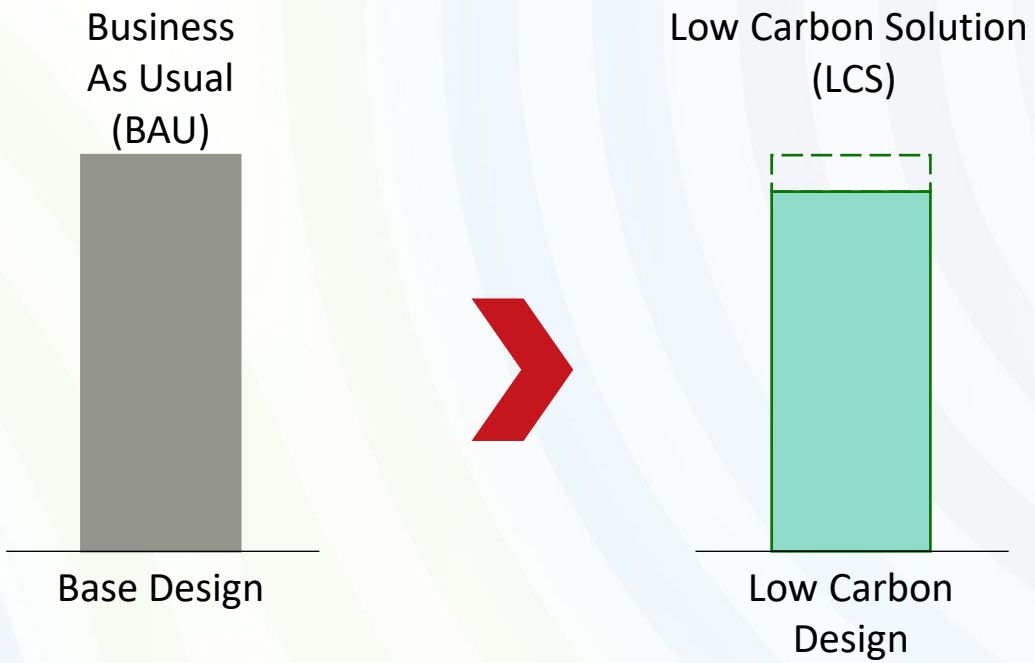
DIAMOND RECOGNITION (DESIGN CATEGORY)



No Provisional Certificate, One time only Diamond Recognition

REGISTER	DEVELOP BASE CASE & SUBMIT APPLICATION	LCC DIAMOND AUDIT BY MGTC	LOW CARBON CITIES TECHNICAL COMMITTEE	LOW CARBON CITIES STEERING COMMITTEE	AWARD DIAMOND RECOGNITION
Zone Category	Formulate data for energy, water, waste, mobility and greenery	Meet, Site Visit (if applicable) and verify documents	Deliberate and recommend for recognition award	Present and approve for recognition award	Low Carbon Cities Awards Ceremony

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EXAMPLES OF CARBON ASSESSMENT RESULTS (DESIGN CATEGORY)

CARBON EMISSIONS REDUCTION ESTIMATION, tCO2e							
Element	**BAU**	**Unit**	**Est. kg CO2e**	**Design**	**Unit**	**Est. kg CO2e**	**% Reduction**
Energy	210	kWh/m2	145.74	200	kWh/m2	138.80	2.38%
Water	100	m3	41.90	90	m3	37.71	1.00%
Waste	100	tonne	58,653.13	90	tonne	52,787.82	1.00%
Mobility	100	VKT	18.37	95	VKT	17.45	1.50%
							5.88%

CARBON SEQUESTRATION ESTIMATION, tCO2e							
Element	**BAU**	**Unit**	**Est. kg CO2**	**Design**	**Unit**	**Est. kg CO2**	**% Increase**
Greenery	9.44	ha	18,881.01	14.16	ha	28,321.52	50.00%
							50.00%

RECOMMENDATION

- Based on the assessment results, the redevelopment of **SEKSYEN 3 < City Name >** has been designed to reduce carbon emissions by **5.88% tCO_2** as compared to the BAU design.
- Therefore, it is recommended that **SEKSYEN 3 < City Name >** is awarded **2 Diamonds** for their Low Carbon Design.

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LCC2030 CHALLENGE PROCESS FLOW

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION

Attend the LCC 2030 Challenge Briefing

Book a consultation session

Submit Registration Form

Pay One-Time Registration Fee (upon confirmation)

Conduct a Private Workshop / Attend Clinic Sessions @ MGTC

Prepare LCC Report (Baseline, Action Plan & Emissions Reduction)

Submit LCC Report

Before 1 July

LCC Audit @ Applicants Premise (upon acceptance of submission)

Audit Report presented a LCC Technical/Steering Committee

Week 1 Nov

Final Result

Pay Audit Fee (upon successful award of certificate)

Low Carbon Cities Awards

Week 1 Dec

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LOW CARBON CITIES 2030 CHALLENGE

Provisional Certificate

LCC-P-B100-09-0001 / 2019

CERTIFICATE
PROVISIONAL

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Majlis Daerah Hulu Selangor

In recognition of their commitment to reduce their carbon emissions under the

LOW CARBON CITIES 2030 CHALLENGE

Location : Ibu Pejabat MDHS
Baseline Year : 2017
Baseline tCO_2 : 266.87
Elements : Energy, Water, Waste, Greeneries

TUAN SYED AHMAD SYED MUSTAFA
ACEO / COO
Malaysian Green Technology Corporation

A Provisional Certificate is awarded to those who have established their emissions baseline and are now working on their low carbon plans

Diamond Recognition

A Diamond Recognition is awarded to those who have successfully achieved actual reduction in carbon emissions based on their comprehensive action plan.

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2023 LOW CARBON CITIES AWARD

85 Diamond Recognitions

17 Zones
68 Partners

15 Provisional Certificates

3 Zones
12 Partners

2 Diamond Design Recognitions

Documentations

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION

Registration Form

- REC-LCC-008-LCC 2030 CHALLENGE Registration Form

Application for Recognition

- REC-LCC-010-LCC 2030 CHALLENGE Application Form for Recognition

Data File

- REC-LCC-011-LCC 2030 Challenge Data File - LCC Zone
- REC-LCC-012-LCC 2030 Challenge Data File - LCC Partner
- REC-LCC-015-LCC 2030 Challenge Data File – LCC Zone (Design)

Report Template

- REC-LCC-013-LCC 2030 CHALLENGE Provisional Report Template
- REC-LCC-004-LCC Blueprint Implementation Document

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MALAYSIAN GREEN TECHNOLOGY
AND CLIMATE CHANGE CORPORATION

25 YEARS
1998-2023 • ADVANCING CLIMATE ACTION

TERIMA KASIH

MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CORPORATION [99801006110 (462237-T)]

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