

NGTP Strategic Thrust 02

CONDUCTIVE ENVIRONMENT

The Government promotes the adoption of green technology through various platforms, from the provision of financial incentives to ensuring green products and services are prioritised in procurement decisions. It is also creating greater visibility and access to the green choices available, and bringing together green innovators with decision makers in the private and public sectors. MGTC plays a critical role in the green ecosystem by developing and implementing various strategic programmes to meet the specific needs of the industry.

GREEN INCENTIVES

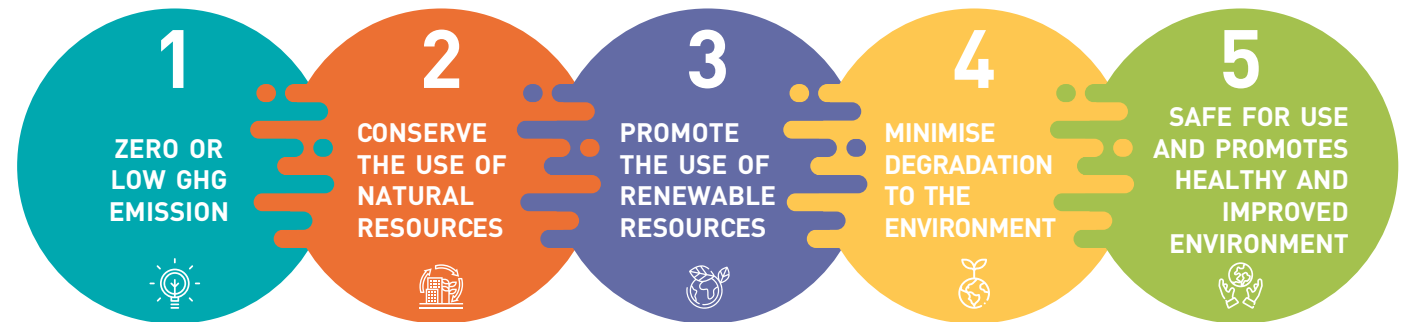
Three key incentive programmes are offered to encourage greater adoption of green technology hence develop the industry:

- ▶ Green Technology Financing Scheme (GTFS)
- ▶ Green Technology Tax Incentives
- ▶ Energy Audit Conditional Grant (EACG)

Green Technology Financing Scheme (GTFS)

GTFS is a low-cost financing scheme to facilitate the financing of green technology projects, providing easier access to private funds. The scheme, which targets both producers and users of green technology, offers a government guarantee of 60% of the financed amount and a 2% per annum rebate on the interest/profit rate charged by financial institutions.

In order to qualify for GTFS, organisations need to demonstrate that their green investments satisfy five criteria:



Progress

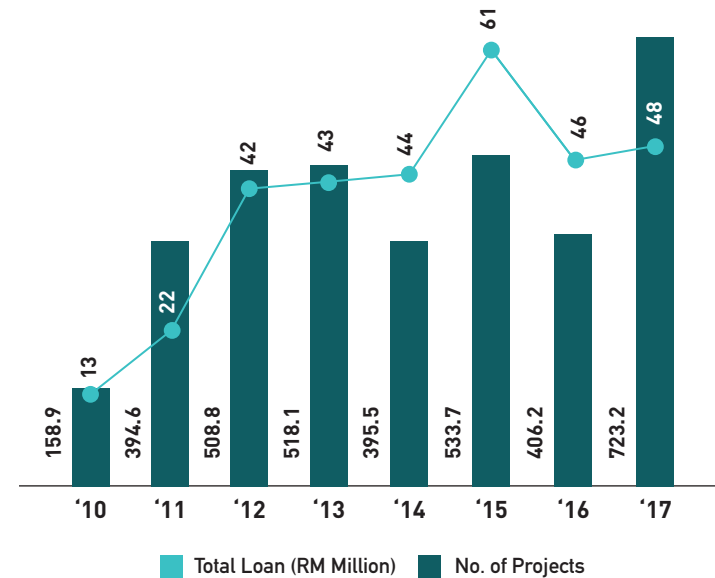
From 2010-2017, 319 projects were approved under the scheme, receiving a total of RM3.6 billion in financing from 28 participating financial institutions.



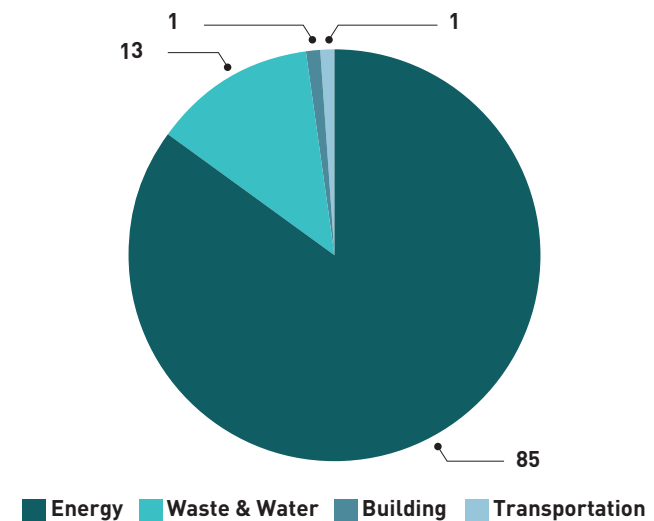
Together, these projects have resulted in:



Financing Offer from Participating Institutions 2010-2017



Project Funding from 2010-2017, by Sector



2019 Highlights



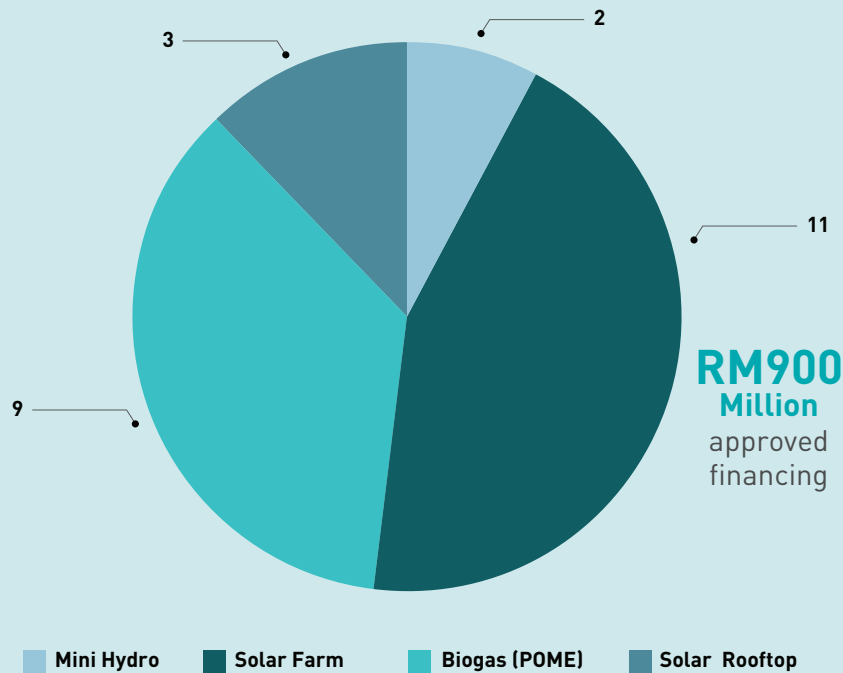
GTFS 2.0 was announced in the 2019 with a RM2.0 billion allocation. Additional criteria and sectors were implemented in the scheme, the latter including energy service companies (ESCOs) and expansion to the manufacturing sector.



RM2.0 Billion
allocation for
GTFS 2.0

9 Projects
solar farm

No. of Project Type Received GTFS 2.0



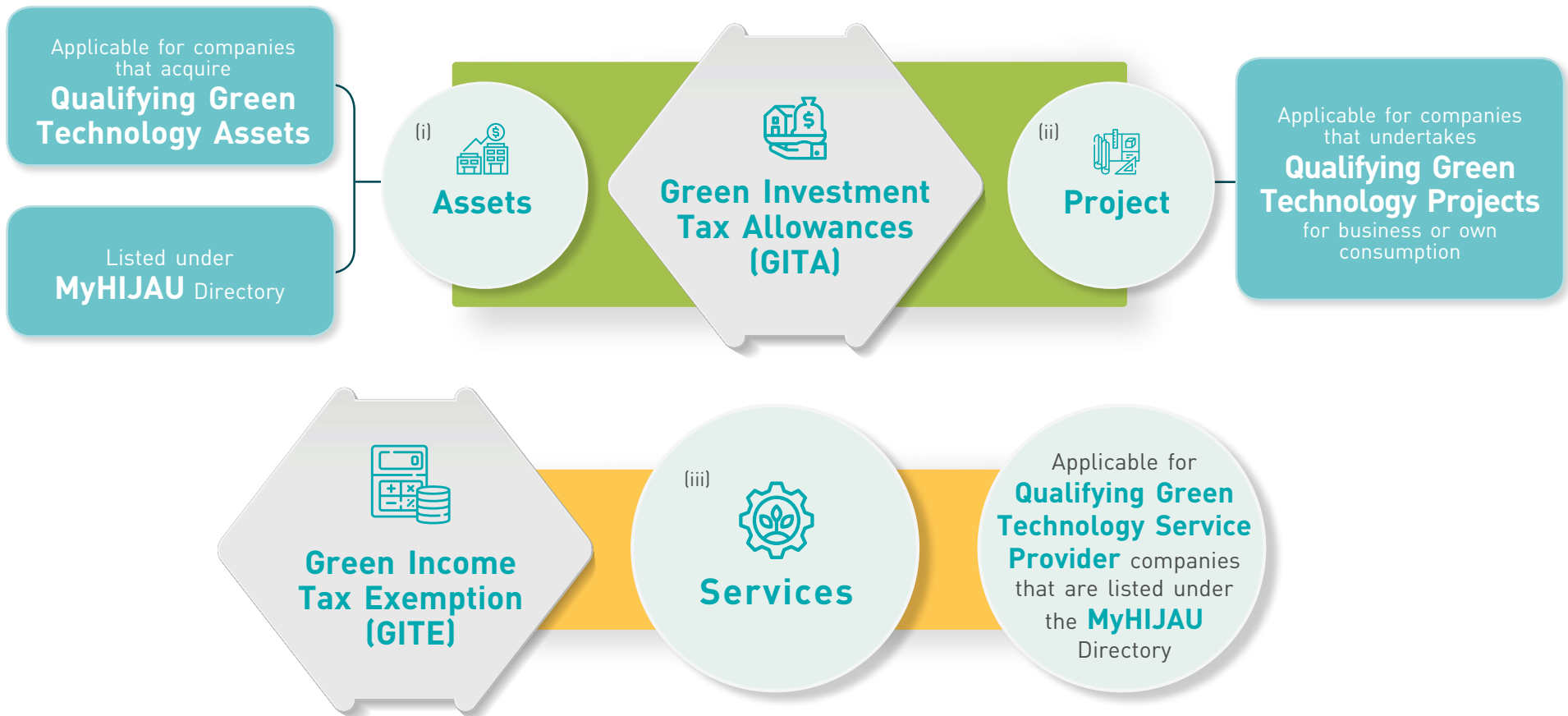
What's Next >>

For the year 2020, the target is for 30 green projects to be funded, at a total financing cost of up to RM600 million. With the inclusion of an ESCOs category in GTFS 2.0, it is anticipated that there will be an increase in financing of investments or assets related to energy efficient projects and/or energy performance contracting in the coming years. More project applications are also expected in the transport sector with the launch of the Low Carbon Mobility Blueprint.

Green Technology Tax Incentives

In 2014, Government have introduced the Green Technology Tax Incentive in 2014 with the objective to strengthen the development of green technology in Malaysia.

There are three groups of activities as follows:

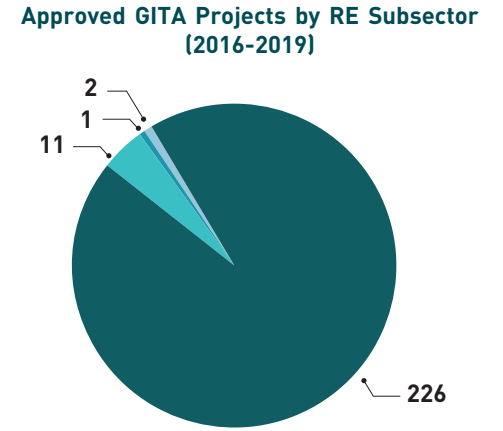
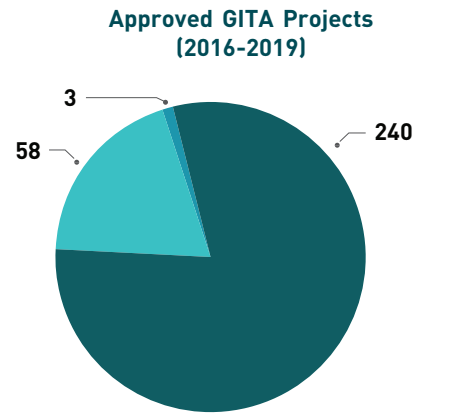
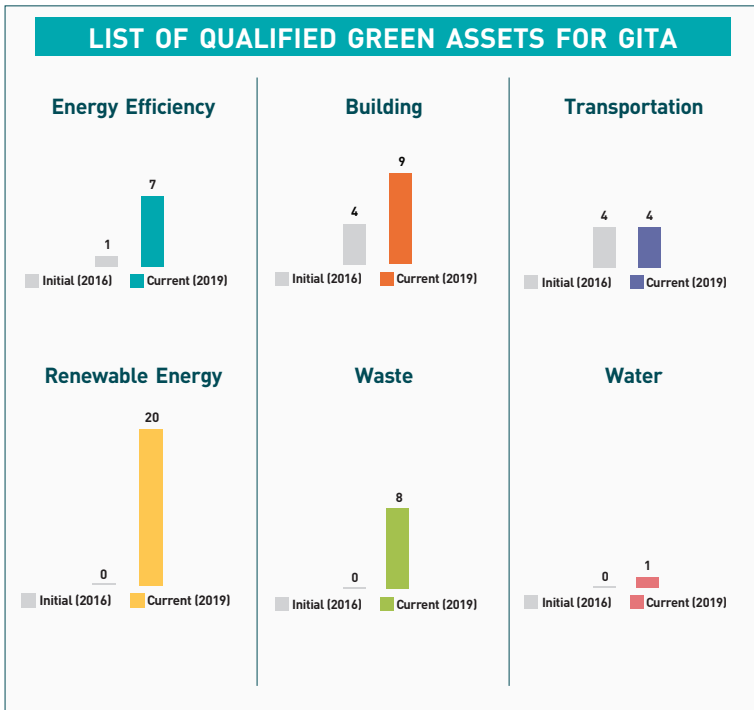


Progress

Under Budget 2019, the Government expanded the list of green assets that qualify for GITA from nine to 49, a large number of which fall under the renewable energy (RE) category. RE, waste and water were new sector added to the incentive which previously focused only on energy efficiency, building and transportation.

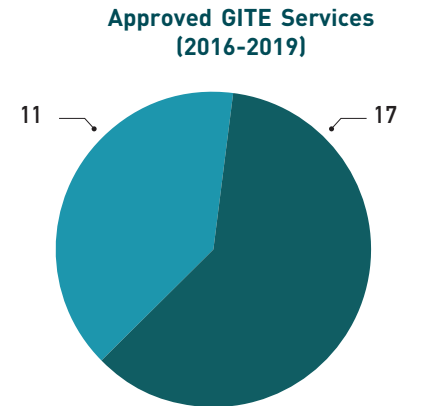
Achievements

From 2016-2019, a total of **301 projects** were approved. Which most of the applications were in the Energy Category with total numbers of **298 projects**. Meanwhile, **28** applications were approved under **GITE** services to claim for tax exemption and **8** applications were approved under **GITA** asset. Details are as indicated in the chart below:



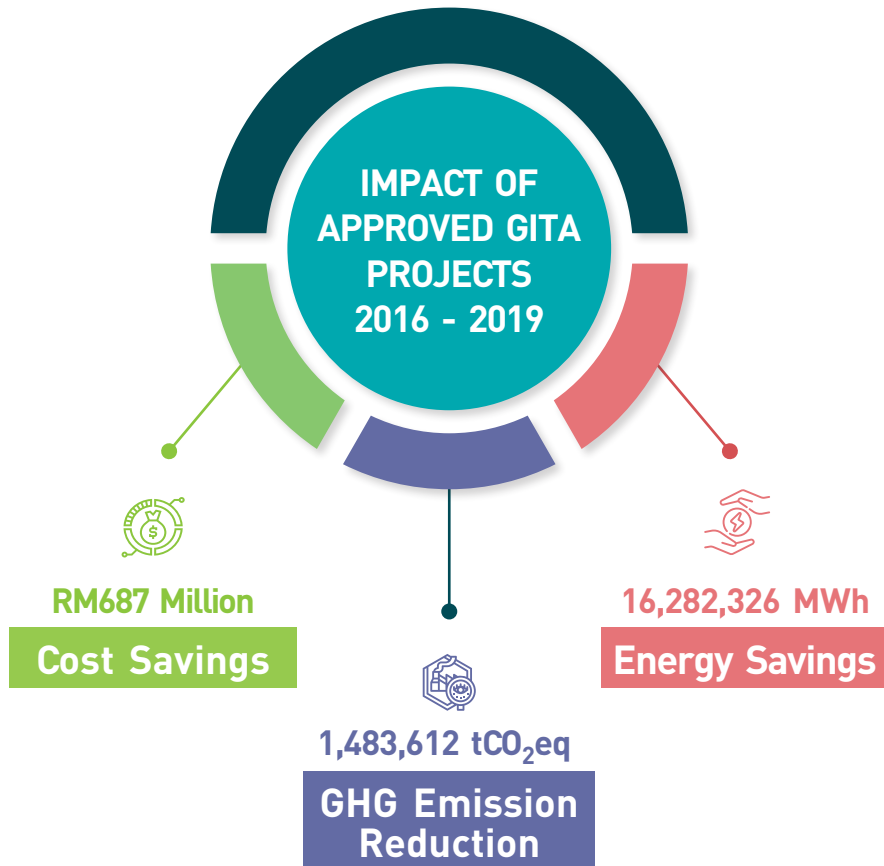
Renewable Energy Energy Efficiency
Green Building

Solar Biogas
Biomass Mini Hydro



Renewable Energy Energy Efficiency
Green Building

Achievements GITA Projects

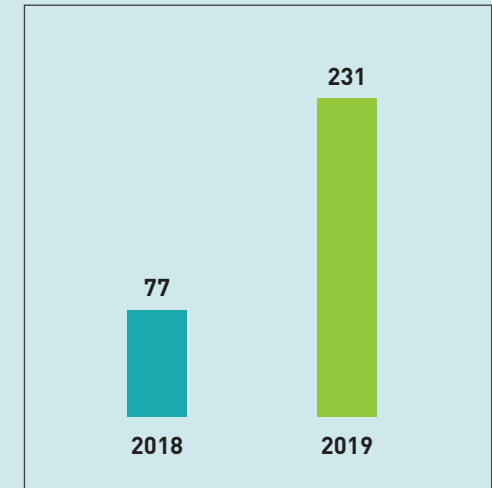


2019 Highlights and What's Next

In 2019, there was a marked increase in number of GITA and GITE, with the total number more than doubling year on year from **77 as at end 2018** to **231 at end 2019**.

In 2020, GITA and GITE have been extended up to the year 2023. Among others, this will provide a boost to the country's ambition of renewable energy making up 20% of the fuel mix by 2025. In addition, 70% income tax exemption of up to 10 years will be given to companies undertaking solar leasing activities under the purview of SEDA Malaysia.

No. of Approved GITA & GITE Compared at Year End



Energy Audit Conditional Grant (EACG)

The industrial sector consumes a large amount of energy. In 2016, it was the second largest energy consumer in Malaysia, accounting for 28% of the country's total consumption. The potential to reduce consumption in this sector is, therefore, also high. Through energy audits conducted by appointed energy service companies (ESCOs), organisations gain clarity on how and where energy is being used, enabling them to better manage and reduce their consumption.

MGTC was appointed to promote the EACG, process the applications and, subsequently, monitor the relevant projects. The organisation's role can be summarised as:



Progress

EACG

was launched by the Ministry of Energy, Green Technology and Water (KeTTHA) under the Eleventh Malaysia Plan (2016-2020)

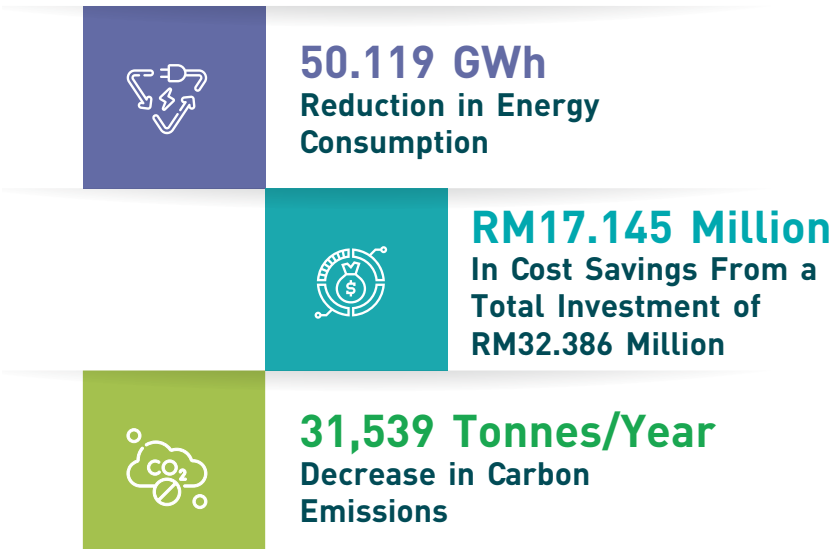
Grants were awarded from May 2016 to May 2018 to large and medium-sized industries that consume at least

100,000 kWh/month
for six consecutive months

Achievements

As of 2018, 108 companies had received the EACG and completed their on-premise energy audits. Monitoring and verification by MGTC began in January 2018 for 90 companies receiving the grant 2017, while monitoring and verification for another 18 companies receiving the grant in 2018 began in July 2018. The 3-year monitoring and verification will end in year 2021.

As of December 2018, the project has led to:



2019 Highlights

In 2019, the monitoring and verification activity covered the reporting cycle of January to June 2019 and July to December 2019, involving 108 companies.

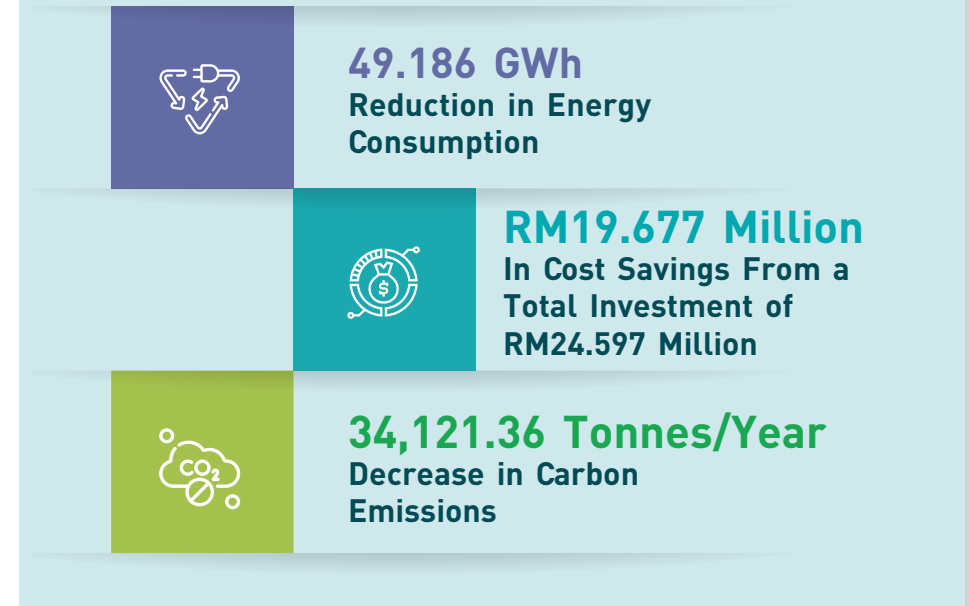
The January-June 2019 cycle resulted in

- » 22.031 GWh reduction in energy consumption
- » RM8.478 million in cost savings from total investment of RM14.718 million
- » 15,278.03 tonnes/year decrease in carbon emissions

The July-December 2019 cycle resulted in

- » 27.155 GWh reduction in energy consumption
- » RM11.198 million in cost savings from total investment of RM9.878 million
- » 18,843.33 tonnes/year decrease in carbon emissions

EACG achievement in 2019



What's Next »»

Based on good response and feedback received from the industrial sector, MGTC has proposed an expansion of the EACG programme under the 12th Malaysia Plan.

GREEN CERTIFICATION

MGTC focuses on three levels of certification for specific objectives, namely certifications at the city, organisation and product/service levels.

- ▶ MyHIJAU Mark
- ▶ Energy Management Gold Standard (EMGS)
- ▶ Low Carbon Cities Framework (LCCF) Diamond Certification

MyHIJAU Mark fulfills the following Key Objectives:



Provides A Simple And Clear Way For Consumers To Distinguish Genuine Green Products And Services Through The Usage Of A Single, Trusted Logo.



Serves As A Comprehensive Online Platform For Businesses To Promote Their Green Products And Services To New Markets.



Encourages Malaysians To Make Smart, Educated Decisions About Their Shopping Habits That Will Lead To A Cleaner, Greener Future.



Inspires More Companies To Attain Proper Environmental Certification In Order To Reap The Benefits Of Carrying The MyHIJAU Mark And Being Listed On The MyHIJAU Directory.



MyHIJAU

Mark & Directory

MyHIJAU Mark & Directory is a government initiative to promote the sourcing and purchasing of green products and services in Malaysia. It provides a single recognisable mark that consolidates all certified products and services that meet local and international environmental standards. The programme also includes an online directory which allows easy access to the public.

MGTC's role is to promote the MyHIJAU Mark recognition and directory, as well as provide business advisory, verification and monitoring of certified green products and services. The organisation register products and services that have already been certified by accredited certification bodies; as well as conducts our own verification for such products and services.

Progress

2012

MyHIJAU Mark was introduced by the Government.

2013

The recognition and directory were launched.

2014

Government announced tax incentives for the use of green products and targeted more than 1,000 products and services to be registered under the scheme. To capture eco-friendly agricultural products and green spaces, MGTC included the Malaysia Sustainable Palm Oil Certification Scheme and Green Building Certification into the programme.

2015

More than 200 products and services registered under the MyHIJAU Mark, and a target was set for at least 20% of all Government purchases being green by 2020.

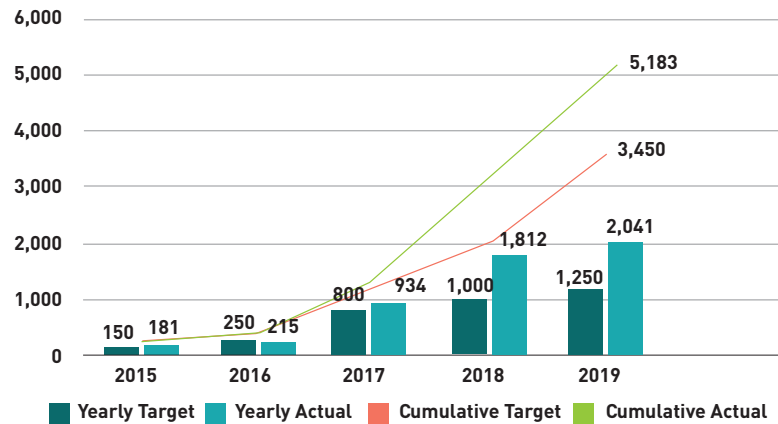
2018

MyHIJAU app was launched enabling consumers to download the Directory from Play Stores and App Stores.

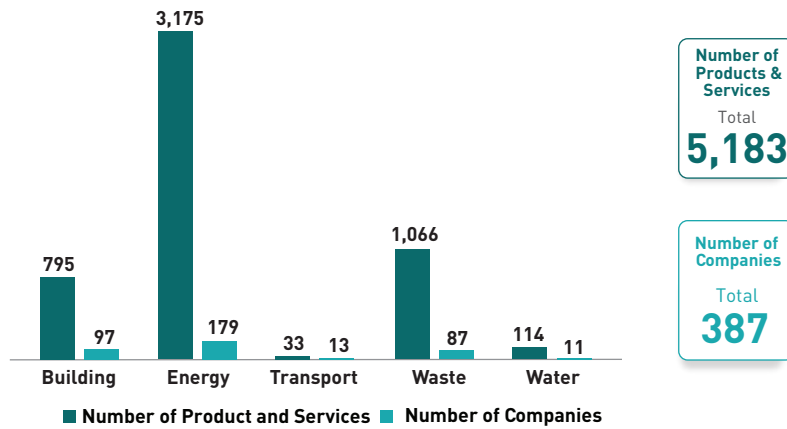
Achievements

From 2015-2019, a total of 5,183 products and services were registered under the scheme.

MyHIJAU Mark Registration Until 31st December 2019



Number of Green Products and Services Registered under MyHIJAU Mark by sector, 2015-2019



2019 Highlights

In 2019, MGTC approved 396 MyHIJAU Mark applications, exceeding the target of 350. In efforts to promote the programme and the companies registered, MGTC set up a MyHIJAU Pavilion at the 10th ISEM. The pavilion showcased developments under the MyHIJAU Mark Recognition Scheme including the website and mobile apps, as well as the certification and verification partners.



MyHIJAU Registered Certification & Verification Partners



What's Next >>

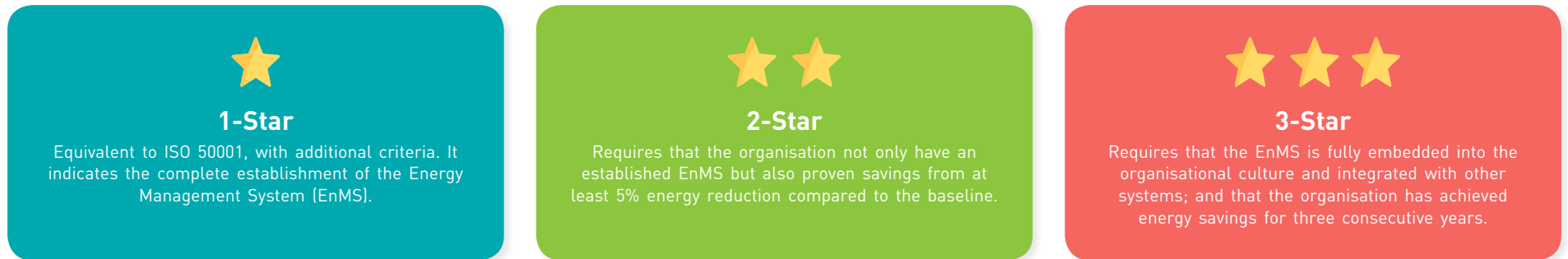
Moving forward, MGTC will continue to organise workshops to explain the MyHIJAU Mark verification process and benefits of the registration and directory. At the same time, the organisation seek to expand its database of verification bodies to facilitate the process of certification.

Energy Management Gold Standard (EMGS)

EMGS is an organisation-level certification delivered under the ASEAN Energy Management Scheme (AEMAS) based on excellence in energy management. Owned by the ASEAN Centre for Energy (ACE) and supported by the European Commission as well as the United Nations Environment Programme (UNEP), EMGS provides companies with a Sustainable Energy Management System (SEMS) where cost savings are not only achieved but maintained and improved. Under the programme, companies also receive comprehensive training for their energy managers to help ensure their energy efficiency goals are achieved.

AEMAS was officially launched in 2011, and to date has been adopted by eight ASEAN member countries. MGTC was appointed by ACE as the certification body for EMGS in Malaysia. Its role includes appointing assessors, assessing companies' documentation, conducting site assessments and presenting the assessments to the relevant approval committees at the national and Asean levels.

There are three rating grades:



Progress

On 1 October 2014, Universiti Teknologi Malaysia (UTM) became the first organisation in Malaysia to be awarded the EMGS 3-Star rating. Meanwhile, MGTC has been collaborating with the Ministry of Health to implement EMGS in all government hospitals as the average hospital uses 2.5 times the amount of energy than other commercial buildings.



2019 Highlights

As of end 2019, **203 EMGS certifications** had been issued by ACE for Malaysia. Within the year 2019 itself, **76 organisations** were certified.



IJN
1st in Malaysian
Health Sector
Awarded EMGS



What's Next >>

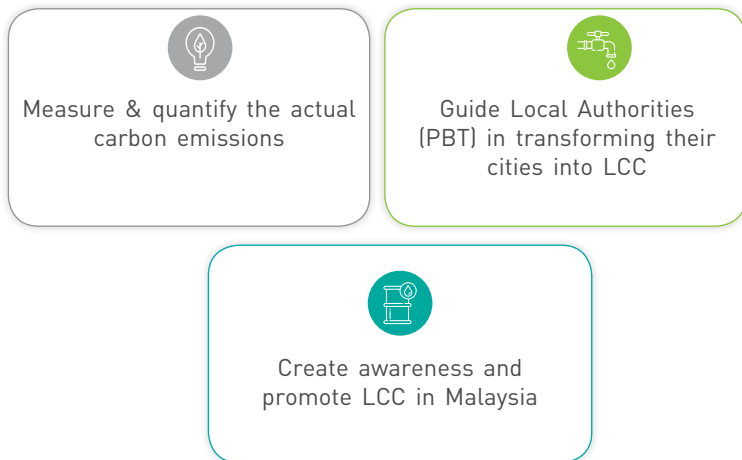


MGTC will continue to assist **1-Star** and **2-Star** organisations to attain the **3-Star** standard. At the same time, it aim to expand its focus to include private hospitals and the education sector, specifically universities and polytechnics.

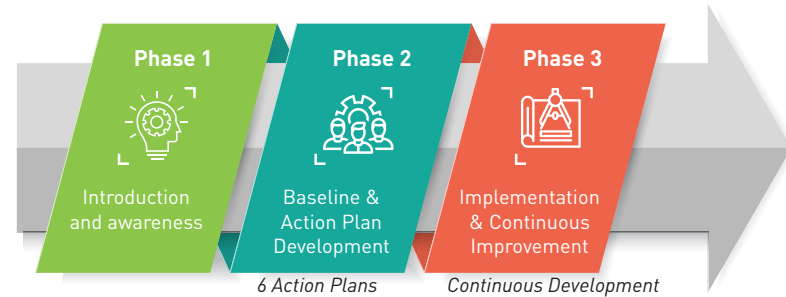
Low-Carbon Cities Framework (LCCF) Diamond Certification

Cities account for about 70% of GHG emissions globally. To help local authorities support holistic sustainable development in Malaysia and achieve the Government’s emissions target by 2030, the LCCF was developed. It provides the necessary tools – including city design guidelines, measurement and reporting methodology as well as an assessment and recognition programme – to implement low-carbon strategies in a systematic and impactful manner. The framework, encompassing the Urban Environment, Urban Transportation, Urban Infrastructure and Building, is to be supported by a Low Carbon Cities Master Plan (LCCMP) which is currently being drafted.

Three key objectives of the LCCF:

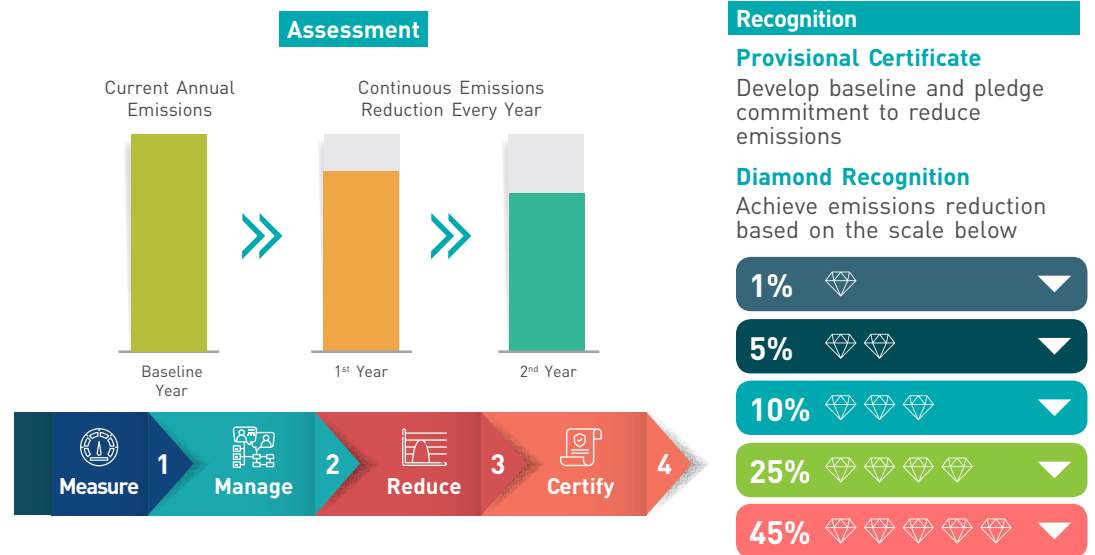


Application of the framework is a continuous process undertaken in three phases:



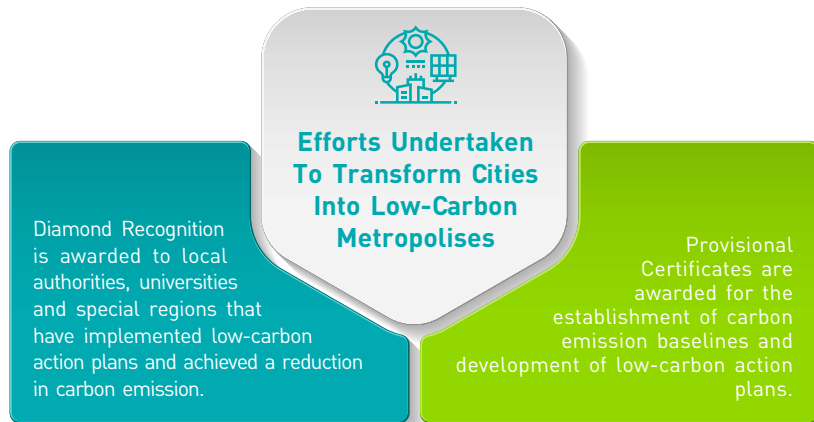
Upon completion of Phase 3, the initiatives undertaken are reviewed to measure the CO₂ reduction achieved. An Assessment and Recognition system is used to evaluate the local councils’ efforts, based on the CO₂ reduction achieved in designated zones.

Assessment & Recognition



Progress

In recognition of efforts undertaken to transform cities into low-carbon metropolises, MGTC together with the Ministry of Energy, Science, Technology, Environment & Climate Change (MESTECC) organises the annual Low Carbon Cities Awards.



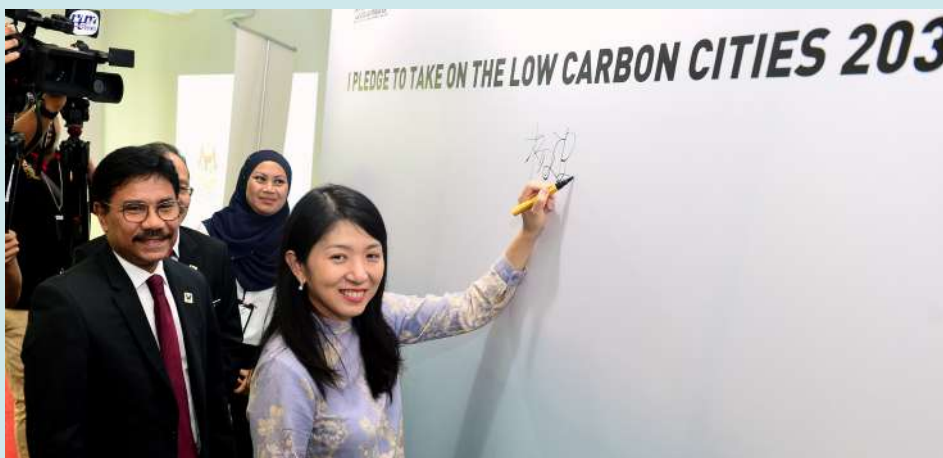
The **Low Carbon Cities 2030 Challenge (LCC2030C)** was launched by the Minister of Energy, Science, Technology, Environment & Climate Change (MESTECC) which sets the target of attaining 200 Low Carbon Zones and 1,000 Low Carbon Partners by 2030.



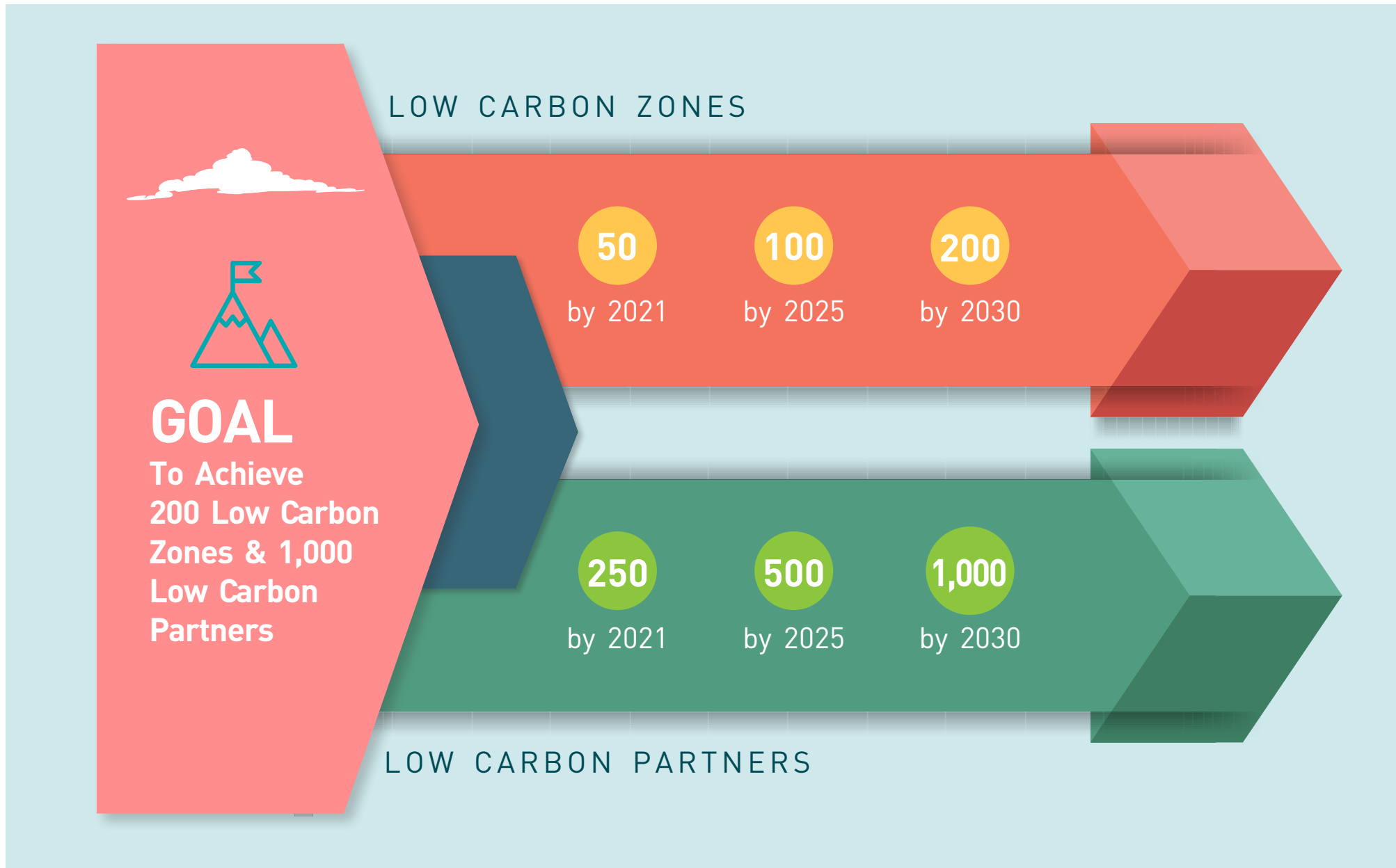
The **10 Low Carbon Zones** that received the Diamond Recognition can be referred to appendixes on page 141.

Collectively, these low carbon zones have reduced a total of **47,705.78 tCO₂e** across 4 elements (energy, water, waste and mobility).

2019 Highlights



LOW CARBON CITIES 2030 CHALLENGE





What's Next >>

In 2020, the aim is to enroll 20 new local authorities into the programme while increasing the number of Diamond-recognised Low-Carbon Zones to 25 and Low-Carbon Partners with Diamond Recognition to 50. A total of 19 mayors and President (Yang Di-Pertua) of various municipalities have pledged to support the Low Carbon Cities 2030 Challenge.

GREEN PROCUREMENT

Green Procurement is one of the strategies to create demand for green products and services. Under the spirit of the Government leading by example, the Ministry of Finance (MOF) is championing the Government Green Procurement programme of which MGTC is the implementing agency.

Government Green Procurement (GPP)

Government procurement plays an important role as a catalyst for socio-economic development, representing about 12%-15% of Gross Domestic Product (GDP). Through procurement, the Government has the potential to promote innovation in green technology hence drive green growth and a green economy. This inspired the launch of Government Green Procurement (GPP) in 2013.

Progress

GPP IMPLEMENTATION IN RMK-11 (2013-2017)

► 2013-2015 (Pilot Project)

- 6 product groups
- 5 ministries / government agencies

► 2017

- 30 product groups
- 25 ministries / government agencies

► 2016

- 20 product groups
- 12 ministries / government agencies

2013 Polis Diraja Malaysia (PDRM) became one of the first government agencies to embrace GGP. MGTC worked with PDRM to launch its Green Practices and Green Technology Application Blueprint, providing the Police a roadmap to reduce its carbon emissions. One of the key initiatives was sustainable procurement, setting a precedent for other government organisations.

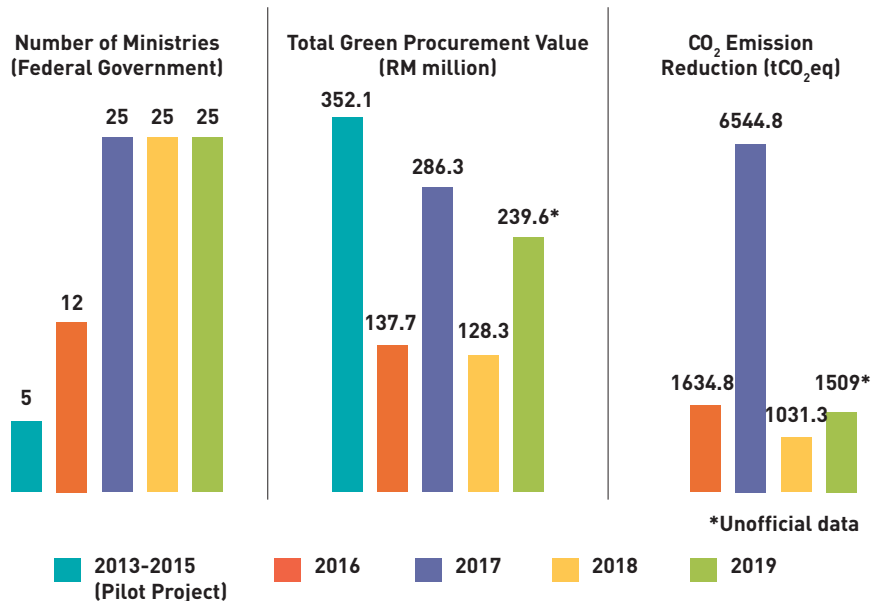
2015 Under the guidance of MGTC, the MOF, Ministry of Energy, Green Technology and Water (KeTTHA) and Economic Planning Unit (EPU) implemented various strategies to spearhead GGP in tandem with the Government's 11th Malaysia Plan aspiration of 20% green government procurement by 2020.

2017 All 25 ministries in Malaysia had embarked on the GGP programme with green products and services totalling 5.4% of the Government's overall procurement. This translated into the avoidance of 6,545kg of tCO₂eq emissions.

2018 GGP Guidelines 2.0 were published, covering 20 GGP criteria for products and services such as ICT equipment, air-conditioning systems and cleaning services. Refer to page 142 for full list of GGP Product Groups.

Achievements

As at end 2019, the cumulative GGP value achieved was RM1.144 billion.



2019 Highlights

In **2019**, **10 new product groups** were **endorsed** such that the GGP Guidelines now cover a total of 30 product groups.

GGP Product Groups

Air Conditioning System Maintenance Services	Coated Flat Steel
Air Conditioning & Mechanical Ventilation System Component (cooling mode)	Toner Cartridge
Electric Water Pump	Event Management (Services & Supplies)
Green Diesel Engine for Heavy Vehicles	Non Wooden Based Furniture
Organic Fertilizer	Masonry Unit

What's Next >>

The target for 2020 is for another 10 product groups to be assessed and added to the existing list. Meanwhile, the GGP programme will be rolled out in more government agencies, state governments and local authorities. This will be supported by programmes such as MyReLamp Project which aims to promote the procurement of energy efficient lighting among local authorities.

Programmes are also being conceptualised to promote green procurement within the private sector under the 12th Malaysia Plan.

2020

- More than 30 product groups
- 25 ministries / government agencies

Government Announced The Target of 20% GGP by Year 2020

GREEN MARKETPLACE

MGTC plays a central role in enhancing the growth of green technology in Malaysia by balancing the supply and demand sides of the equation through the creation of an effective green marketplace.

- ▶ Annual IGEN
- ▶ Global Platforms

Annual International Greentech & Eco Products Exhibition & Conference Malaysia (IGEM)

IGEM has established itself as South East Asia's largest trade event for green technologies and eco solutions. It is widely recognised as the platform for solutions providers and green energy businesses to tap into the fast-expanding region by showcasing the latest innovations to policy makers, government organisations, investors and the mass markets. It also serves as a "marketplace" for industry players to explore business opportunities, generating potential investment for Malaysia.

One of the Government's flagship green technology events, IGEN has been held since 2010 to enhance the development and potential of green technology-based businesses as well as create awareness among the public of the importance of green technology and green living.

Progress & Achievements

Between 2010 and 2018, IGEN attracted more than 400,000 visitors and exhibitors from more than 50 countries. It also recorded more than RM23 billion in actual and potential business transactions.

2010 to 2019

IGEM 2010

A Green New Deal

No. of Exhibitors:
277
Total No. of Visitors:
86,372
Business Leads:
RM1.2 Billion

IGEM 2011

A Green New Deal: The Next Frontier

No. of Exhibitors:
353
Total No. of Visitors:
68,105
Business Leads:
RM1.3 Billion

IGEM 2012

Greentech for Growth

No. of Exhibitors:
366
Total No. of Visitors:
65,210
Business Leads:
RM1.3 Billion

IGEM 2013

Advancing Green Growth and Global Entrepreneurship

No. of Exhibitors:
261
Total No. of Visitors:
56,552
Business Leads:
RM0.4 Billion

IGEM 2014

Creating Green Wealth

No. of Exhibitors:
357
Total No. of Visitors:
49,813
Business Leads:
RM1.9 Billion

IGEM 2015

Powering the Green Economy

No. of Exhibitors:
350
Total No. of Visitors:
23,932
Business Leads:
RM1.98 Billion

IGEM 2016

Green Business for Sustainability

No. of Exhibitors:
350
Total No. of Visitors:
33,903
Business Leads:
RM2.046 Billion

IGEM 2017

Powering Green Cities

No. of Exhibitors:
378
Total No. of Visitors:
34,868
Business Leads:
RM9.19 Billion

IGEM 2018

Green Economy & Industry 4.0: Achieving Sustainable Development Goals

No. of Exhibition Booth:
280
Total No. of Visitors:
39,803
Business Leads:
RM4.155 Billion

IGEM 2019

Innovating Sustainability

No. of Exhibition Booth:
376
Total No. of Visitors:
40,531
Business Leads:
RM5.985 Billion

2019 Highlights



In 2019, the **10th edition of IGEM**, held at the Kuala Lumpur International Convention Centre (KLCC), attracted 230 exhibitors who set up 376 exhibition booths which were **visited by over 40,531 trade and public visitors** from **43 countries**. The event garnered a total of RM5.985 billion in business leads. Through the event, **26 MoUs** were **signed** between organisations from the government and private sectors, including SMEs, while seven products were launched. Refer to page 142 for full list of MoU/MoA forged during IGEM 2019.

Investor & Buyer Engagement Over 500 Business Matching Meetings



Collaboration

IGEM is a platform to provide visibility of the different organisations involved in evolving green technology, from innovators to facilitators, producers and investors. Through the event, various partnerships are formed. During **IGEM 2019, 26 MoUs** were **forged** between various organisations.



Product Launches

IGEM is also the ideal platform at which government and private sector organisations are able to garner high visibility of new programmes, products and services in the field of green technology. During IGEM 2019, **seven products** were **launched**.

Product Launches at IGEM 2019



Launching Peer-to-Peer Energy Trading (P2P) by SEDA



Launch of PETRONAS Solar Rooftop Solutions



Launch of Green Pit Stop IOT Garden by Ny Design (M) Sdn Bhd (Incubatee of Technology Park Malaysia)



Launch of TNBES-MGTC EV Infrastructure Expansion Project



MCY Product Launch:

- >> TRUCE - SARINGAN PANTAS BGS (BIOANALYTICAL QUEST SDN BHD - INCUBATEE TPM)
- >> HALEA NATURAL SKIN CARE (UTM)
- >> MNR G-TREAT (MNR MULTITECH SDN BHD - INCUBATEE TPM)
- >> ELECTRONIC NOSE TECHNOLOGY (E-ANFUN) (SYNBION SDN BHD - INCUBATEE TPM)

Other Product Launches at IGEM 2019

Launch of Green Tariff Rider by TNB

Launch of Malaysia Green Attribute Tracking System (MGATS) by TNB

250
exhibitors
RM1.6b
business
leads

17
countries
10k
visitors

What's Next >>

MGTC is currently co-organising the 11th edition of IGEM, which is expected to be held on 5-9 October 2020. Themed "Energising Sustainability", this year's event anchors on innovation to ensure environmental stability along with economic prosperity. The aim is to attract RM1.6 billion business leads, 250 exhibitors, 17 countries and 10,000 visitors.

Participation at Global Platforms

MGTC also plays a significant role in promoting local green products and services abroad, creating a presence for local companies in the global green marketplace. A key event to date has been the international specialised expo, EXPO 2017, in Astana, Kazakhstan. Currently, MGTC is coordinating Malaysia's participation at the upcoming World Expo, EXPO 2020 Dubai. Both expos fall under the auspices of the Bureau International des Exposition.

Astana EXPO 2017 – Future Energy

MGTC was appointed by the Government as the implementing agency tasked to develop and coordinate Malaysia's programmes and activities at EXPO 2017 Astana. EXPO 2017, themed "Future Energy", provided an unprecedented opportunity for Malaysia to develop stronger trade and business ties in the field of green energy, products and services with the Republic of Kazakhstan as well as the other 114 participating countries.

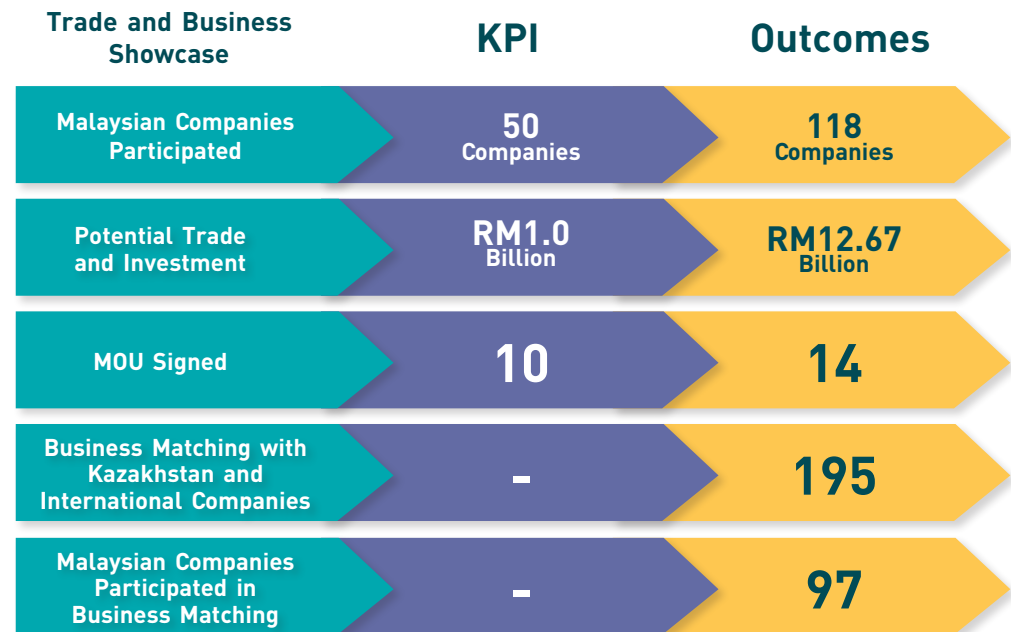
The 727m² Malaysia Pavilion, classified under the Medium Pavilion category alongside countries such as Germany, China and South Korea, was themed "Powering Green Growth". It showcased our country's journey towards a sustainable and green future, providing visitors an immersive experience beginning with a rainforest experience followed by Malaysia's transformation agenda to its vision to become a developed, low-carbon, high-income nation. The pavilion journey ended with a cultural experience and colourful showcase towards Malaysia's traditions, heritage and arts.

A total of 118 Malaysian companies, aside from several government ministries and agencies, participated in Malaysia Pavilion's programmes, with 3,770 Malaysian and international participants attending its business and social events.

Malaysia Pavilion was one of the top 10 most visited pavilions attracting 682,591 visitors, including prime ministers, ministers, deputy ministers and ambassadors from various countries, in addition to members of the public. It won the Marketing Excellence Award's Gold Award for Excellence in Government Sector Marketing for its EXPO 2017 Astana brand campaign; and an Honourable Mention by Exhibitor Magazine's Expo 2017 Astana Awards for Best Interpretation of Theme.

In terms of trade and investment outcomes, Malaysia Pavilion generated RM12.67 billion in business leads including the signing of 14 MoUs between various parties.

Summary of Deliverables and Achievements | Outcomes of Malaysia Pavilion



2019 Highlights

EXPO 2020 Dubai



In 2019, MGTC was given the role as implementing agency for Malaysia's participation at the upcoming EXPO 2020 to be held in Dubai from October 2021 to March 2022.

EXPO 2020 Dubai is themed "Connecting Minds, Creating the Future" with three sub-themes of "Opportunity", "Mobility" and "Sustainability". Malaysia has chosen "Energising Sustainability" as the theme for its Net Zero Carbon Pavilion. This aptly displays our commitment to sustainability as we aim to ensure our participation at EXPO 2020 Dubai does not leave any carbon footprint. The Pavilion features a Rainforest Canopy inspired by the majestic rainforest in Malaysia, which also symbolises the nation's forest

conservation efforts. The Pavilion is segmented into four dedicated zones themed "Energising Today", "Energising Tomorrow", "Energising Harmony" and "Energising Business".

At EXPO 2020 Dubai, Malaysia will be positioned as a dynamic and progressive nation driven by science, technology and innovation; and an ideal place to invest in, do business with, study in and visit. A total of 192 countries are participating in EXPO 2020 Dubai, dubbed the "World's Greatest Show". Malaysia will leverage the event to further strengthen its global relationships while enhancing trade ties with the UAE and other participating countries.

Some 22 ministries and several agencies will lead a delegation of over 200 companies encompassing 10 industries across six clusters, to participate in 25 weekly thematic business programmes throughout EXPO 2020 Dubai.

The Six Clusters



Sustainable,
Agriculture &
Agricommodity



Energy, Science,
Technology,
Innovation &
Environment



Culture, Tourism,
Women, Education,
Youth & Health



E-Commerce,
Entrepreneurship
& ICT



Trade and 4th
Industrial
Revolution



Malaysia
Sustainability
Week & Water



Malaysia's Targets



**RM10
billion**
in potential trade
and investments



1,000
business leads



20
MoUs/partnership
agreements



1,000,000
visitors to its pavilion

Malaysia will also create and promote dialogue and discussions on sustainability issues through conferences, forums and pocket talks.

Organisation

MGTC's Green Advisory programme has been set up to help organisations pursue effective green strategies. PLUS and Johor Port Authority were among the early beneficiaries of the two-to-three-year programme.

GREEN ADVISORY PROGRAMME

OVERVIEW

Green Advisory Programme (GAP) is a hand-holding programme to facilitate organisations to adopt green technology and green culture.

One organisation per industry/sector/sub-sector is selected to be positioned as a role model for the respective industry/sector/sub-sector

CURRENT CLIENT



Highway Operator (PLUS)



Port Management
(LEMBAGA PELABUHAN JOHOR)

APPROACH

Programme Duration: 2-3 years with various options preferred by client



Roadmap
Development



Turnkey
Projects



Technical
Advisory

GREEN ADVISORY

- ▶ Organisation
- ▶ Local Authorities

At Johor Port Authority (JPA), we helped to outline a Green Procurement Policy following which JPA implemented an energy efficiency lighting project and a solar energy project.

ORGANISATION PURSUING GREEN STRATEGY

Case Study: Johor Port Authority (Lembaga Pelabuhan Johor)

2016 Green Procurement Policy (GGP)



Policy came into effect on
1 January 2018

2017 Energy Efficiency Lighting Project (LED Project) @ HQ



Result:

A total of 17.9% savings in energy consumption (January 2019 compared to 2017 figures)

2018 Solar Energy Project



Result:

BEI improved to 140 from 2016 baseline of 190.76
(Completed one-year cycle with RM savings of more than 20%)

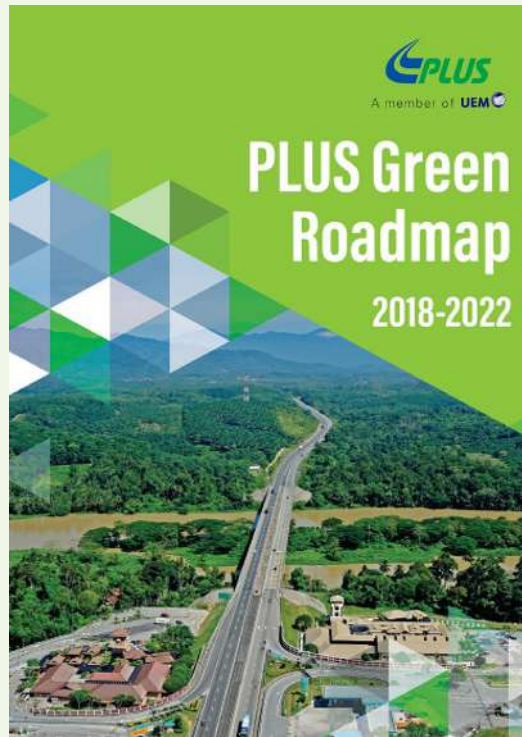
At PLUS, a green roadmap was established which saw the implementation of a solar PV pilot project in 2018. Currently, the organisation is undergoing a five-year programme up to 2023 to install solar PV infrastructure.

ORGANISATION PURSUING GREEN STRATEGY

Case Study: PLUS Malaysia Berhad

2017

PLUS Green Roadmap



- ▶ PLUS Roadmap
- ▶ GHG Baseline

2018

Solar PV Pilot Project



Solar PV Panels at Persada PLUS



The Solar PV Panels at PLUS RSA Machap, Northbound

2019 Highlights

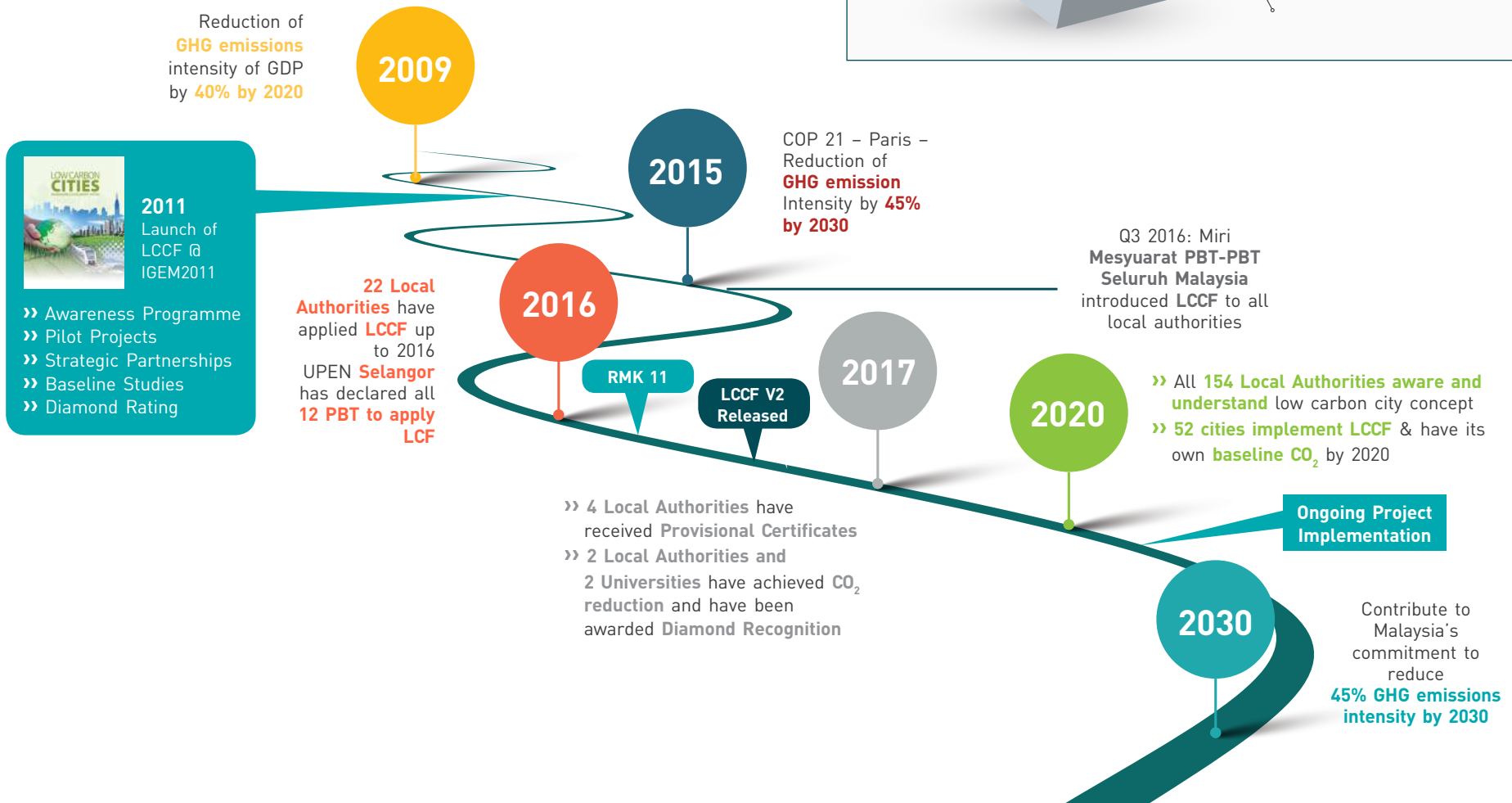
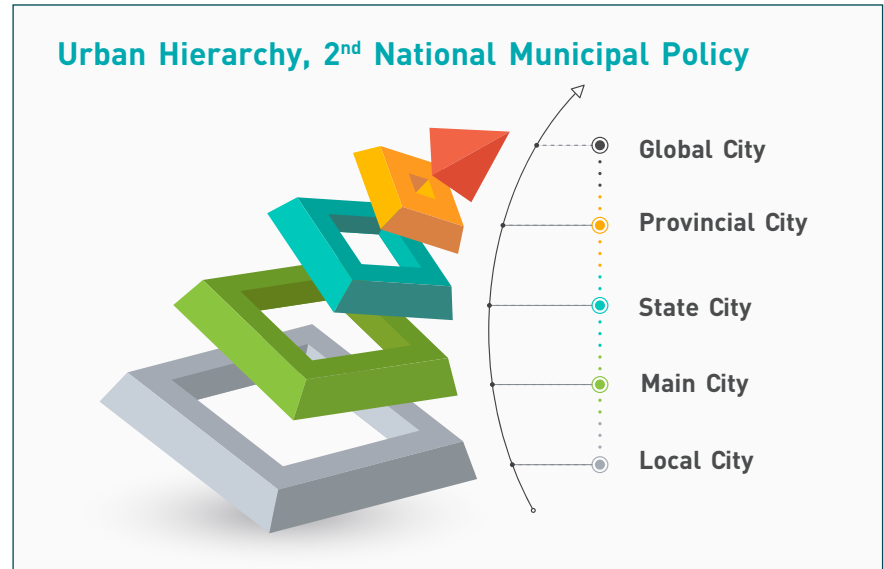


In 2019, MGTC received a number of enquiries, especially from local financial institutions, on the pursuit of green strategies. This was mainly driven by Bank Negara Malaysia through its Value-Based Intermediation Financing and Investment Impact Assessment Framework. At IGEM 2019, **MGTC signed an MOU to assist AmBank Islamic Berhad to develop green financial packages.**

Local Authorities adopting Low Carbon Cities

MGTC also fulfils an advisory role in assisting local authorities transform their cities into low carbon cities through technical clinics and workshops.

Progress



Achievements

Based on the technical advisory provided to the Local Authorities since 2001, up till 2018:



LCCF Implementation Under Ministry (2011-2018)

52 LA + 3 Uni + TLDM
Introduced and Trained

19 LA + 3 Uni + TLDM
Developed Baseline and Action Plan

5 LA + 2 Uni
Achieved Reduction



International Recognition

Kuala Lumpur

83rd (Planet Sub Index) on Sustainable Cities Index 2018

Shah Alam & Hang Tuah Jaya

Low Carbon Model Town (APEC, Japan)

Petaling Jaya

UNESCO Learning City Award 2019

Muar

ASEAN Clean Tourist City Standard Award 2017

Taiping

3rd Sustainable Top 100 Destination Awards 2019



International Cities Network & Affiliations:

ICLEI

(Penang, Langkawi, Melaka)

GCOM

(Putrajaya, KL, Seberang Perai, Iskandar)

2019 Highlights

MGTC organised 12 LCCF workshops, clinics and focus group discussions throughout 2019 to advise and guide the local authorities in developing their respective LCC action plans.



In **October 2019**, **MGTC** also organised a **Low Carbon Cities 2030 Challenge**: City-Biz Alliance Session #1 - Energy event. At this session, solutions providers related to energy efficiency and sustainable energy were invited to share their products and services. Among the solutions providers were several MyHIJAU companies.

This session was aimed at linking local authorities with solution providers to enhance on the ground solutions of Low Carbon Cities.



What's Next >>

The way forward is to further enhance low carbon cities programmes by launching the National Low Carbon Cities Masterplan & Policy Roadmap that is scheduled for approval in 2020. The Masterplan outlines various action items and recommendations to be taken at the National, State and Local Government levels.

