

NGTP Strategic Thrust 05

PROMOTION & PUBLIC AWARENESS

In order for green technology to become a key driver of sustainable development, it has to be integrated into every aspect of our lives. This, in turn, requires Malaysians to adopt a green mindset and make conscious decisions to reduce our collective environmental footprint. To encourage more sustainable lifestyles, MGTC reaches out to the public by recognising excellence in green technologies and also creating opportunities for people to experience the multifaceted benefits of green solutions.

AWARDS & RECOGNITION

Recognition of efforts to promote and build a green economy not only motivate greater participation in the sector, it also creates greater awareness among the public of the value placed on green technology.

National Energy Awards (NEA)

The National Energy Awards, or NEA is a ministry initiative initiated in 2018 to acknowledge and recognise the energy efficiency practices and renewable energy efforts among private and public sectors in Malaysia. NEA is the cornerstone of a joint venture between government & private sectors for innovations in products, solutions & commercialisation towards a green economy. It is funded by the Malaysian Electricity Supply Industries Trust Account or AAIBE and is fully supported by Energy Commission (Suruhanjaya Tenaga) and Sustainable Energy Development Authority (SEDA). It also serves as a platform to identify Malaysia's best practises in the field EE & RE to represent Malaysia at the ASEAN Energy Awards (AEA) on a yearly basis.

Objectives

-  Recognise efforts across the public and private sectors in energy innovation that have a positive impact on the public.
-  Enhance awareness of the importance of sustainable energy in society.
-  Highlight the development of ideas and best practices in sustainable energy.
-  Promote innovation in technology, inspiring research and development (R&D) in line with the aspiration for green energy to become a new engine of economic growth.

Categories

-  Energy Efficiency (EE) – recognising excellence in energy management and energy efficiency in commercial and industrial buildings.
-  Renewable Energy (RE) – encompassing on-grid and off-grid generation of energy from different renewable sources.

Low Carbon Cities Award

Low Carbon Annual Sharing Session started in 2017 as a programme that recognises the efforts and achievements of local authorities, universities, organisations and companies to lower their carbon footprint. In 2019, the programme was rebranded as the Low Carbon City Awards for better visibility and prestige as well as to promote the Low Carbon Cities 2030 Challenge (LCC2030Challenge).

LCC2030Challenge aims to establish 200 Low Carbon Zones and 1,000 Low Carbon Partners across Malaysia by 2030.

These Low Carbon Zones and Low Carbon Partners will minimise their emissions from:



ENERGY

Maximise building energy efficiency and increase adoption of renewable energy.



WATER

Maximise water efficiency and increase adoption of rainwater harvesting.



MOBILITY

Increase use of public transport, cycling, walking and other low carbon modes.



WASTE

Reduce the amount of waste that goes into the landfills.



GREENERY

Maintain or increase the number of trees and green spaces in the city.

The awards also aim to provide participating organisations with visibility to share and promote their carbon reduction efforts.



EMGS Award

The Energy Management Gold Standard (EMGS) Award is held to recognise organisations that have successfully implemented Sustainable Energy Management Systems in compliance with standards set under the ASEAN Energy Management Scheme (AEMAS). Launched in 2015, the annual award showcases best practices to managed energy better and be more energy efficient.

2019 Highlights

To date NEA has identified and recognised **34 organisations** with **27** of them went on to win at the prestigious ASEAN Energy Awards showcasing their best practises and positioned Malaysia as the regional player in the area of sustainable energy.

This is indeed encouraging, as it demonstrates the growing commitment and confidence of businesses and institutions in Malaysia in adopting sustainable practices in their operations as this would enable Malaysia to **achieve its 20% RE generation capacity** mix by 2025 from just 2% in 2016 and contribute towards the country's climate commitment under the Paris Agreement, in which Malaysia has pledged to **reduce its carbon emissions per GDP by 45% in 2030**.

NEA2019 Awards dinner was graced by YB Yeo Bee Yin, Minister of Energy, Science, Technology, Environment & Climate Change and presented 11 awards for Category 1 (Energy Efficiency) and 4 awards for Category 2 (Renewable Energy).

In addition to this and upon strong recommendation by NEA panel of judges and Technical Committee, Merit Awards was presented to **5 companies** due the competitiveness of the category and good quality report submissions on having **scored more than 75%**. Other guest includes key industry stakeholders such as Malaysia Green Building Council (MGBC) and Malaysia Society of Heating, Refrigerating and Air-Conditioning Engineers (MASHRAE) including association & chambers such as Federation of Malaysian Manufacturing (FMM), Pertubuhan Arkitek Malaysia (PAM). Winners list of NEA 2019 and AEA 2019 can be referred in the appendix on page 143. More information at www.nationalenergyaward.com.my.



The 2019 Low Carbon Cities Awards ceremony was held at the Kuala Lumpur Convention Centre (KLCC) in conjunction with the 10th IGEM. **Ten Low Carbon Zones** and **nine Low Carbon Partners received** the Diamond Recognition for reducing their carbon emissions across four elements – energy, water, mobility and waste – while increasing their carbon sequestration by planting more trees. The award ceremony was attended by 135 guests including seven mayors and representatives from 33 local authorities as well as 20 Presidents (Yang di-Pertua) of various municipalities.



The EMGS Award Ceremony 2019 was held on 10 October 2019 at KLCC. A total of 84 organisations attended the ceremony that saw **76 organisations received the EMGS Certificate: one for the 3-Star Rating, 43 for the 2-Star Rating and 32 for the 1-Star Rating.** Institut Jantung Negara (IJN) became the first from the healthcare sector and the second organisation in the country to receive the 3-Star rating, after Universiti Teknologi Malaysia (UTM).



What's Next >>

NEA 2020 will be widening the scope to include Energy Performance Contracting (EPC) projects, local private and public universities and financial institutions that provide access to financing for energy-related projects in the country. This is part of efforts to recognise other key players within the energy sector.

NEA will encompass the mobility, waste and building sectors in the awards programme in due course.

EXPERIENTIAL LEARNING

One of the best approaches to promote green technology is to enable potential users to experience the products and services first hand. In this regard, MGTC has been providing experiential learning since the Green Energy Office, more commonly known as the GEO building, was commissioned in 2007. Using insights gleaned, demonstration projects have been developed to create awareness and experiential learning opportunities.



Industry and Public Experiencing Green Building

The GEO building is MGTC's headquarters in Bangi, about 40km south of Kuala Lumpur. Located on a five-acre site, the building is designed to be exceptionally energy efficient, with a building energy index (BEI) of 65Wh/m²/year as compared to the norm of 250-300kWh/m²/year for conventional office buildings in Kuala Lumpur.

Incorporating advanced green technologies, the GEO building serves as a model for the design and construction of sustainable living/working spaces in the region. Among its green solutions are innovative energy management systems and rainwater harvesting systems. MGTC has hosted visitors from ministries, foreign delegations and green technology organisations to showcase Malaysia's green building technology. The tour programme is also open to members of the public.

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Public Experiencing Electric Mobility

A crucial component of a robust electric vehicles (EV) market is a strong ecosystem of charging infrastructure and backend support. Recognising this, in 2016, the Government granted MGTC RM5 million for the first phase of rolling out EV charging points across Malaysia, which entailed the installation of 200 charging points in the Peninsular.

On 17 August 2016, MGTC introduced ChargeEV, its public EV charging station network brand. The charging station infrastructure also serves as an instrument for the public to experience an EV lifestyle. With the collaboration of Sarawak Energy Berhad, ChargeEV has now reached East Malaysia, where four stations have been set up in Kuching. As at December 2019, the network of ChargeEV stations in the country comprised 300 units.



To further expand this network, at the last meeting of the Minister of Energy, Science, Technology, Environment and Climate Change (MESTECC) and members of the Council of State Governments in January 2020, MGTC requested support from the state governments for the installation of more ChargeEV stations in public areas to promote usage of electric and hybrid vehicles on roads nationwide.

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2019 Highlights

MGTC and Tenaga Nasional Bhd's wholly-owned unit **TNB Energy Services Sdn Bhd (TNBES)** to install **100 ChargEV stations at shopping malls** and selected 5-star hotels. Installation work is being carried out by TNBES and MGTC's joint venture company, Tenaga E Mobility Solutions Sdn Bhd, which will also explore potential businesses related to smart mobility.



TNBES Managing Director Dr Ahmad Jaafar Abd Hamid Ahmad Jaafar and Minister of Energy, Science, Technology, Environment & Climate Change Yeo Bee Yin launched TNBES at MGTC's EV infrastructure expansion project in conjunction with IGEM 2019.

What's Next >>

MGTC is working to promote greater green technology adoption by state governments under a new strategy which is expected to be rolled out in 2020. Eleven state secretariat buildings have been identified to serve as models of energy efficiency that would both reduce consumption and utility costs. Malaysia's state governments are currently studying our proposal to undertake Energy and Retrofit Management Projects in these buildings using Energy Performance Contracting (EPC).

2019 Highlights

PUBLIC ENGAGEMENT THROUGH ACTIVE LIFESTYLE

Another public engagement strategy is through the promotion of active lifestyle programmes, which is strongly correlated to the adoption of green lifestyles. Activities such as walking and cycling are some of the lifestyle solutions that support the green agenda.



In **2019, MGTC organised the first GreenTech Run** to promote an eco-friendly lifestyle by engaging the public on the Government's green initiatives and promoting products and services by MGTC. The run, taglined "Don't be mean, just go green!", attracted around 700 participants.

Winners of the 10km men's and women's categories were **rewarded with RM500** and a medal, RM300 and a medal and RM200 and medal for first, second and third placing respectively. Those who came in fourth to sixth received RM150 and a medal, while seventh to 10th finishers received RM100 and a medal. All those who completed the run received a medal.



What's Next >>



MGTC is currently conceptualising the Karnival Gaya Hidup Hijau (GAH) 2020 to encourage a green lifestyle among local authorities, strategic and business partners, local SMEs, non-governmental organisations (NGOs), university and college students and society in general.

