



Kenyataan Akhbar

Press Release

GREEN ENERGY OFFICE (GEO) EMERGED AS THE WINNER OF THE SPECIAL SUBMISSION FOR ZERO ENERGY BUILDING IN ENERGY EFFICIENCIES CATEGORY OF THE ASEAN ENERGY AWARDS 2020

BANGI – Malaysian Green Technology and Climate Change Centre (MGTC) through its Green Energy Office (GEO) was named the winner of the Special Submission – Zero Energy Building in Energy Efficiencies Category at the ASEAN Energy Awards Ceremonies which was held virtually.

The ASEAN Energy Awards (AEA), which was first held in 2000 is the Southeast Asia highest recognition in the region for excellence, creativity, practicality and dedication to a cause in the field of energy. Zero Energy Building (ZEB) is a new subcategory of the ASEAN Energy Awards under the Energy Efficient Building category introduced starting in 2019 edition.

Organised by ASEAN Centre for Energy (ACE) in collaboration with the ASEAN Specialized Energy Bodies (SEBs), AEA is an annual event aim in promoting awareness as well as setting up to encourage private companies in each ASEAN Member States (AMS) to enhance their Renewable Energy (RE) technologies and development towards a cleaner energy resource.

MGTC's GEO Building was awarded as the winner for demonstrating excellence and dedication to the field of energy-efficient buildings with reference to its outstanding models of green innovation in Malaysia. Commissioned in 2007 and completed in 2010, the building marked a milestone in the adoption of sustainable building design and technology in Malaysia.

The GEO building incorporates various innovative features. One of the key features of this innovation adoption is the floor slab cooling system which was the first in Malaysia. It is an innovative cooling system, where 50% of the air cooling comes from the ceiling and the floor utilizing chilled radiation and the rest by air volume for each building zone.

Solar photovoltaic systems are another key feature of the GEO building and have been aesthetically incorporated into its design. Building-integrated photovoltaics (BIPV) systems generate electricity for the building's needs while exporting surplus into the national grid during the daytime via a net-metering arrangement. The BIPV systems provide up to 50% of the building's electricity requirements, which amounts to 120,000 kWh/year.

TS. Shamsul Bahar Mohd Nor, MGTC Chief Executive Officer, said, the very purpose of designing and constructing our office as an ultra-low carbon building was to create an impactful statement and send a strong signal to architects to design green buildings. Zero energy projects either in buildings or homes do make a vast difference in our contribution towards reducing carbon emission to dampen the release of Green House Gas.

“It is exceptionally extraordinary that ACE recognized MGTC's efforts all these years as the official national driver for Malaysia in spearheading and facilitating AEMAS programs. Those programs have certainly benefited hundreds of premises as well as capacity building for thousands of energy managers throughout Malaysia. The programs do inspire MGTC in sustaining our Zero Energy Building to adopt more green technology applications and energy-efficient facilities. Indeed, the ASEAN Energy Award would motivate us further in championing the responsibility of promoting current buildings and designs of future buildings to be zero carbon and environmentally sustainable”.

ZEBs are defined as buildings that utilise advanced architectural designs aiming to realise substantial energy savings by reducing the energy loads, positively utilising natural energy by applying passive technologies, and introducing high-efficiency equipment and systems. Additionally, it aims to achieve the highest degree of energy independence and reduce the annual primary energy balance to zero by introducing renewable energy. The ZEB can be achieved through the step-by-step approach of EE measures in buildings.

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About Us

Formerly known as Pusat Tenaga Malaysia (PTM), Malaysian Green Technology Corporation (MGTC) was restructured in April 2010 and was under the purview of Ministry of Energy Green Technology and Water (KeTTHA) till 2018. Assuming the role of the country's lead agency, MGTC focused on catalysing green technology agenda in line with the aspirations of the National Green Technology Policy 2009. For the period of 2018 till early 2020, MGTC was under the purview of Ministry of Energy, Science, Technology, Environment & Climate Change (MESTECC). Now, MGTC is under the Ministry of Environment and Water (KASA) and known as Malaysian Green Technology and Climate Change Centre. As the lead agency for KASA, MGTC develops and implements programmes on green growth, climate change mitigation and climate change adaptation.

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