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# TAKING A CUE FROM CENVIRO AND TELEKOM MALAYSIA'S ENERGY-EFFICIENT BUILDINGS

by MARK RAO

**C**ENVIRO Sdn Bhd and Telekom Malaysia Bhd (TM) are leading the way in energy-efficient buildings which form an integral part of Malaysia's pledge to create a greener and more sustainable future.

Cenviro, which is Khazanah Nasional Bhd's flagship green business investment, and Malaysia's largest telecommunications provider (telco) TM were among the winners at the National Energy Awards (NEA) 2019 for Best Practices in Energy Efficiency. The former took home the top prize in the Green Building category via its subsidiary, Kualiti Alam Sdn Bhd, for the RM25 million Environmental Preservation and Innovation Centre (EPIC) in Negri Sembilan.

Cenviro MD Dr Johari Jalli said EPIC was inspired by the goal to build a low-carbon building where work, lifestyle and innovation meet in a sustainable environment.

"The construction of EPIC adopted the sustainable philosophy from concept to completion towards reducing the building's energy consumption and adverse impact on the environment.

"EPIC is a catalyst to our national interest to accelerate development in the waste

industry," he told *The Malaysian Reserve* (TMR).

Sitting on a 5.4-acre (2.19ha) land, EPIC is an integrated training and development centre for waste management and forms part of Cenviro's larger Eco Park development. The latter is a 100-acre (40.46ha) development aimed at encouraging recycling and recovery activities, in line with the company's mandate to grow the green circular economy.

Meanwhile, TM came in first in the Energy Management Building (Small and Medium) category for its Menara TM building in Melaka.

Its VP (support business) Badrul Hisham Ahmad said the energy-efficient building achieved an overall 30% reduction in energy consumption via lighting and de-cooling technologies.

"What is important is that we have changed the lighting system to LED. Based on our study, having LED bulbs would result in over 20% reductions in energy consumption).

"Furthermore, the team managed to make the de-cooling system more efficient by changing sensors and looking at the motor for an additional 10% (energy) saving," he told TMR.

The telco is not resting on its laurels, identifying solar energy as the next platform to achieve further energy efficiency and savings.

"We are also venturing into solar panel because TM has between 400 and 600 buildings. I believe that given the country's sun-hour at about 12 hours per day, it is quite sad if we don't make full use of these resources," Badrul Hisham said.

Both companies, alongside other winners in NEA 2019, will represent Malaysia in the Asean Energy Awards (AEA) which will be held this month in Thailand. Johari said the chance to represent

Malaysia in the AEA is an honour for Cenviro, while allowing the company to expand its reach and visibility in the region.

"This representation is important to us as we have the aspiration to expand our operations cross-border.

"Surely, this will provide us the opportunity and platform to introduce Cenviro to all our potential customers out there," he said.

As for Badrul Hisham, the AEA would raise awareness that TM is serious in energy efficiency as part of its wider efforts to help Malaysia fulfill its green agenda.



**FULL LIST OF WINNERS**

**CATEGORY 1**  
Energy Efficiency (EE)

**ENERGY MANAGEMENT BUILDING (SMALL AND MEDIUM)**  
Winner: Telekom Malaysia Bhd: Menara TM, MITC Melaka  
Runner-up: Tenaga Nasional Bhd: Wisma TNB, Jalan Anson, Penang

**ENERGY MANAGEMENT BUILDING (LARGE)**  
Winner: PDC Setia Urus Sdn Bhd: Menara KOMTAR, Penang  
Runner-up: Edgenta Mediserve Sdn Bhd: Hospital Slim River, Perak

**ENERGY MANAGEMENT INDUSTRY (LARGE)**  
Winner: CSC Steel Sdn Bhd: CSC Steel Sdn Bhd, Melaka  
Runner-up: Top Glove Sdn Bhd: TG Medical Sdn Bhd (Factory 14), Klang, Selangor

**GREEN BUILDING**  
Winner: Kualiti Alam Sdn Bhd, (subsidiary of Cenviro): EPIC, Negri Sembilan  
Runner-up: IEN Consultants Sdn Bhd: IKEA Cheras, Kuala Lumpur

**EE DESIGNED BUILDING**  
Winner: Malaysia Airports Holdings Bhd: KLIA2, Selangor  
Runner-up: IEN Consultants Sdn Bhd: Paramit Factory in the Forest, Penang

**RETROFITTED BUILDING**  
Runner-up: Intelliscense Sdn Bhd: Subang Parade Mall, Selangor

**CATEGORY 2**  
Renewable Energy (RE)

**ON-GRID (NATIONAL GRID)**  
Winner: Cypark Resources Sdn Bhd: Grid Connected Floating Solar System on the Water Retention Dam, Negri Sembilan  
Runner-up: Mattan Engineering Sdn Bhd: Building Integrated Photovoltaic (BiPV), Negri Sembilan

**ON-GRID (LOCAL GRID)**  
Winner: FGV Palm Industries Sdn Bhd: Rural Electrification from RE (Biogas) for UMAS Community

**OFF-GRID (POWER)**  
Runner-up: Centre for Renewable Energy, Faculty of Engineering, Universiti Malaysia Sarawak

For more details, please visit [www.nationalenergyaward.com.my](http://www.nationalenergyaward.com.my) or contact NEA Secretariat at 603-8921 0800; [nea@greentechmalaysia.my](mailto:nea@greentechmalaysia.my)

