Kuala lumpur solar energy research and development

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Solar energy plays an important role towards achieving long lasting, sustainable, environment friendly renewable energy resources to fulfill the energy needs for mankind. The use of non-renewable fuels, such as fossil fuels have many side effects. Their combustion products produce pollution, acid rain and global warming.

Conversion to clean energy sources such as solar energy would enable the world to improve the quality of life throughout the planet Earth, not only for humans, but also for its flora and fauna as well. Because of the foregoing, there is a need to develop an ingenious method of solar energy conversion systems and then to substitute it where applications of fossil fuels are most vulnerable. Therefore, extensive research and development in solar energy utilization technologies must be carried out.

Solar Photovoltaic technology enables us to convert sun"s energy directly into electricity by means of devices called solar cells. The Solar Energy Research Institute (SERI) of UKM has been rigorously working to promote Solar Photovoltaic Technology in this region ever since its birth in 2005.

Malaysia will soon witness the first zero-energy building (ZEB) through the establishment of Universiti Kuala Lumpur (UniKL)"s Sustainable Energy Living Lab.

Located at UniKL’s Gombak-based institute, UniKL British Malaysian Institute (UniKL BMI), the three-storey academic ZEB will house teaching and learning facilities as well as research laboratories for sustainable energy studies.

The Minister of Rural Development, Dato" Seri Mahdzir Khalid said that the building will produce more electricity through photovoltaic solar panels installed on the roof and facade of the building than what it consumes.

"Malaysia is gradually striving to achieve carbon neutral status by 2050, as the Prime Minister (Dato’ Sri Ismail Sabri Yaakob) has often emphasised.

"An important point (that we want to focus on is), that we need expertise among local students or Malaysians who are competent in the field of renewable energy (RE). This is our future," told him, while adding that UniKL BMI is among the higher learning institute that will spearhead talent development for sustainable and renewable energy in Malaysia.

He spoke at a press conference, after officiating the Sustainable Energy Forum "Achieving Carbon Neutral by 2050" and UniKL Sustainable Energy Living Lab Construction Project, at UniKL BMI, yesterday (27 July

2022).

Also present were the Director General of MARA, YBhg. Dato" Azhar Abdul Manaf; Deputy Director-General (Education) of MARA, YBhg. En. Razlan Haji Samsuri; MARA Senior Director of Investment, YBhg. En. Mohd Diah Abas; Group Chief Executive Officer of Mara Corporation Sdn Bhd, YBhg. Dato" Julainie Mohd Salleh; YB Senator, Datuk Dr Azhar Ahmad, President/Chief Executive Officer of UniKL, Datuk Dr Roziah Omar and the Dean of UniKL BMI, Assoc. Prof. Dr. Kushsairy Abdul Kadir.

Through the establishment of the Sustainable Energy Living Lab which is expected to be completed in February 2023, UniKL will offer a Bachelor of Electrical Technology Engineering (Sustainable Energy) in addition to two professional certificates namely Energy Efficiency and Grid-Connected Photovoltaic (PV) Systems Design.

Following this, the technical university is expected to produce 1,000 internationally recognised technology engineering bachelor’s degree holders in the sustainable energy sector by 2030 to meet the job demands of the industry in Malaysia.

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