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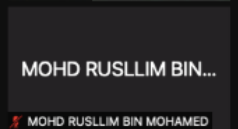
# Sustainability Development : Large Scale Solar Model Development Models

## Session with Universiti Malaysia Pahang

28 December 2021



CONFIDENTIAL AND PROPRIETARY



Recording...
01:18:55

Expertise And Capabilities of TNB across Energy Sustainability Value Chain makes TNB the One-stop Business Sustainability Partner

	GSPARX	TNB Renewables	TNBES	Tenaga E Mobility Solutions	MAEVI	Allo Technology
<b>Description</b>	GSPARX provides green retail generation business in the local renewable energy market by investing in the Solar PV systems for retail electricity customers across the commercial, industrial and residential segments	TNB Renewables is focused on being a Renewable Energy Development Company with development of RE projects locally and abroad under small scale and utility scale segments	TNB Energy Services (TNBES) specializes in renewable energy, energy efficiency, rural electrification, green technology and consultancy & services	Tenaga E Mobility Solutions is a JV between TNB subsidiary, TNBES and Malaysia Green Technology Corp (MGTCT) to expand the potential of the EV charging business and any businesses related to smart mobility	Maevi develops IoT products & solutions focusing but not limited to energy management and optimization.	Allo Technology facilitate the development of smart cities through reliable ICT infrastructure
<b>Capabilities</b>	<ul style="list-style-type: none"> <li>Preliminary study</li> <li>Consultation</li> <li>Construction</li> <li>Operations and maintenance</li> </ul>	<ul style="list-style-type: none"> <li>Business assessment</li> <li>Engineering design</li> <li>Asset development, project management,</li> <li>Asset management</li> </ul>	<ul style="list-style-type: none"> <li>Energy Audit – Monitoring, load profiling, analysis, solutioning</li> <li>Energy efficiency solution – installation, post monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Installation</li> <li>Permitting and approval</li> <li>Operations and maintenance</li> </ul>	<b>Product solutions:</b> <ul style="list-style-type: none"> <li>Automation</li> <li>Monitoring</li> <li>Analytics</li> <li>Security</li> </ul>	<ul style="list-style-type: none"> <li>Infrastructure facilities</li> <li>Broadband internet</li> <li>System integration</li> <li>Networking</li> <li>Consultancy</li> </ul>
<b>Track Record</b>	Secured 36 MW of solar rooftop business with 10 MW to be delivered by end of 2020	<ul style="list-style-type: none"> <li>Development and management of 78MWp Sepang Solar</li> <li>Development of 45 MWp Bukit Selambau Solar</li> </ul>	<b>Energy efficiency solution:</b> <ul style="list-style-type: none"> <li>University Putra Malaysia (UPM)</li> <li>Celcom</li> </ul>	14 charging stations have been installed with 35 more pending approval. Target installation of 100 stations across Malaysia's major cities	Maevi home solutions and building solutions targets 9 million customers by 2022	Collaboration with housing developer in Cyberjaya for smart-city concept

AKLA AZLAN

MUHAMMAD AIZAT AZED

Mohd Yusrizal Mohd Yusof

Hamzah A.

MOHD RUSLLIM BIN...

MOHD RUSLLIM BIN MOHAMED

## General

# Round-table discussion: TNB's Perspective on Supporting Sustainable Program in Malaysia

13 January 2022

PEKAN, 28 December 2021 – Malaysian Sustainable University Campus Network Universiti Malaysia Pahang (MYSUN-UMP), in collaboration with Unit Lestari UMP, convened the second series of a round-table discussion with industry, TNB Renewables Sdn. Bhd., with the topic “TNB's Perspective on Supporting Sustainable Program in Malaysia” delivered by the Managing Director of TNB Renewables Sdn. Bhd., Ir. Mohd Yusrizal Mohd Yusof.

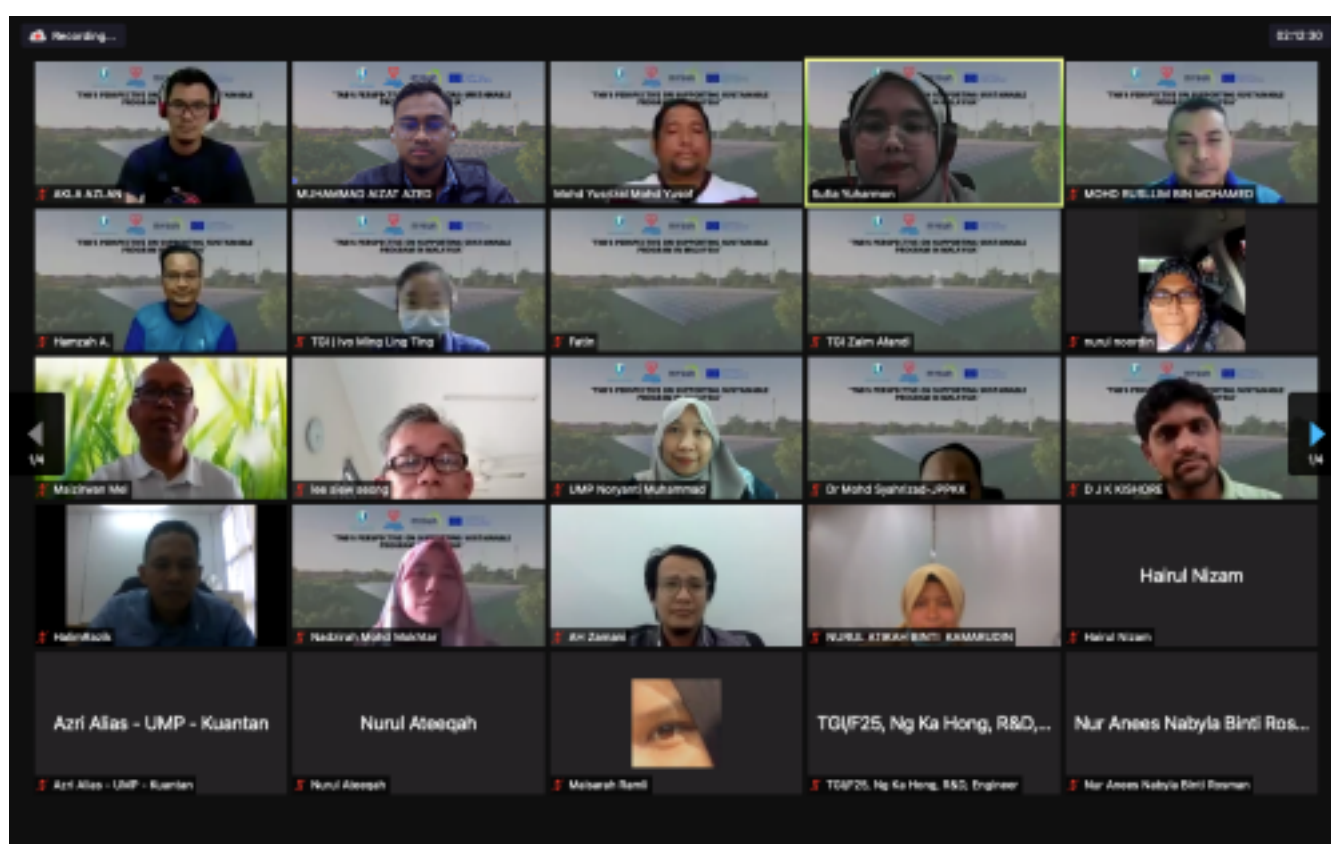
The round-table discussion attracted more than 90 participants from staff and students of Universiti

Malaysia Pahang, industries, and the public.

The session was moderated by Aminaton Sufia Yuharmon, Assistant Research Officer of Malaysian Sustainable University Campus Network (MYSUN-UMP).

The project leader of MYSUN-UMP, Associate Professor Ts. Dr. Mohd Rusllim Mohamed, in his opening speech, introduced the participants with the general background of MYSUN international grant co-funded by Erasmus+ Programme of European Union as an initiative by eight Malaysian university partners and three other European universities focusing on promoting and supporting a culture of sustainability practices and energy efficiency in higher educational institute through education and awareness.

The session continued with the welcome address by the Assistant Vice-Chancellor of Graduate Development Department, Associate Professor Ir. Dr. Nurul Hazlina Noordin, representing the management of UMP.



Associate Professor Ir. Dr. Nurul Hazlina emphasised the importance of the UMP community to get involved with stakeholders, especially industry and community, to work hand in hand to improve the life quality of the surrounding community through guidance listed in Sustainable Development Goals (SDG's) agreed by 195 nations around the world with United Nation since 2015.

The discussion began with an introductory presentation by Ir. Mohd Yusrizal Mohd Yusof on the Sustainability Development Plan of Tenaga Nasional Berhad (TNB), specifically on their expertise and capabilities across the energy sustainability value chain.

This makes TNB the one-stop centre for business sustainability partners in Malaysia.

Some of the key takeaways from this discussion include changing Malaysia's renewables energy

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landscape supported by suitable regulations, innovative technology, and providing incentives for the investments and financing; encouraging the role of developing renewable energy infrastructure nationwide to meet the requirement through collaboration approach with a coalition of stakeholders; and improving the data availability, accessibility, and transparency related to the renewable energy industry.

In his closing speech, Ir. Mohd Yusrizal believed that all industry players and researchers from universities need to work together to match the supply and demand in the renewable energy ecosystem.

The collaboration will also help the parties involved to transform the growth of the renewable energy industry into another level.

**By: Muhammad Aizat Azed, Research Assistant**

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