ENVIRONMENTAL SUSTAINABILITY Report 2022

Universiti Teknologi MARA Sarawak

UNIVERSITI TEKNOLOGI MARA

Published By

Perpustakaan Tun Abdul Razak
Universiti Teknologi MARA Cawangan Sarawak
Jalan Meranek, 94300 Kota Samarahan
Sarawak

Published Date

31 October 2023

Chief Editor

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eISBN: 978-967-0828-66-4

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Design and Visual Development by Ts Madeleine Elna Perreau

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Research on Water Treatment

The findings from the research are proposed to be expanded and applied to the river rehabilitation projects for Sarawak rivers. The project is still at the proposal stage, and the researchers have already presented it to the representatives of the Sarawak State Government for approval.

Monitoring of Electric Usage

Computerized systems for facility and building management are used to monitor electric usage in the buildings. For facilities management, a system known as Tomms is used to help the Facility Unit plans more effective and sustainable planning, to be in line with the Facility Management System (FMS) approach (Figure 6.4). For building management, UiTM Sarawak uses Pegasus software to monitor and control building services such as mechanical ventilation systems, lighting and fire prevention systems. A smart meter at the main switch is also installed to obtain electricity consumption readings in each building to monitor electricity consumption.

Figure 6.4 *Facility Management System Using Tomms Dan Building Management System Software*

Hydroponic Project

At present, UiTM Sarawak successfully established mini hydroponics for herbs and aquaponic (a combination of aqua and plant) in research activities. In the future, UiTM Sarawak has agreed to start a project on chilies production, based on fertigation systems. It was found that there is a demand of organic products by the local residents in which UiTM Sarawak plans to explore further and becomes one of the producers in this area.

Editorial Board Members

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e ISBN 978-967-0828-66-4

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(online)