ENVIRONMENTAL SUSTAINABILITY Report 0727

Universiti Teknologi MARA Sarawak





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Green Initiatiyes

Green Campus is a campus where environmentally friendly actions and education work together to promote sustainable and eco-friendly activities. The green campus idea allows campuses to take the lead in reinventing its environmental environmental culture and forging new standards by finding sustainable solutions to the world's environmental, social, and economic requirements. In advancing towards achieving the 17 Sustainable Development Goals by 2030, UiTM Sarawak has been pro-actively seeking input to improve its sustainable development practices on campus. One of the recent efforts includes conducting a Sustainable Campus Survey in April 2022. The survey assesses the respondents' enthusiasm, knowledge, and views to prioritise the campus sustainability activities in four areas; namely energy management, waste and water management, sustainable transportation, and greening initiatives. The respondents's profiles are tabulated in Table 5.1.

Demographic Profile of Respondents



Table 5.1 Demographic Profile Of Respondents

The survey has received 80 responses. Of the 89 people who took part in the survey, 69.7 percent were students, 25.8 percent were academics, and 4.5 percent were members of the administrative staff. Sixty-eight percent of the survey's participants are women, and most of them are between the ages of 18 and 25. The survey results show

Energy Management

As part of the energy management efforts, there are a total of 7 proposed initiatives (Table 5.2) that can be implemented on The initiatives that campus. are recommended include installing solar lights and converting one existing building into a green building in which received the greatest amount of support, with 85.4 percent of the respondents supporting the adoption of both for improved energy management (Figure 5.2). The guestions for energy management initiatives are as listed in the Table 5.2 below.



that 87.6 percent of those surveyed are aware of the Sustainable Development Goals for the year 2030. In addition, 92.2 percent of respondents felt that UiTM Sarawak is a sustainable campus, indicating a good attitude towards making the campus sustainable



Figure 5.2 Proposed initiatives on energy management

1	Installation of LED lighting
2	Installation of solar street lights
3	Installation of solar motion sensor lighting at the walkways
4	Conversion of one existing building into green building
5	Use of passive cooling system in the campus building
6	Mounting solar panels on the parking roofs
7	Build an open or outdoor gym

Table 5.2 List of questions on energy management

Waste and Water Management

A total of eight questions as listed in Table 5.3 giving recommendations for waste and water management. Five of the eight proposed initiatives received scores of more than 85 percent, indicating high support for their implementation on campus as shown in Figure 5.3. These initiatives include the collection of recyclable materials and electronic waste (85.4%), rainwater harvesting for watering plants and washing vehicles (87.6%), using a dual flush system at the toilet (86.5%), composting food waste from cafeterias and dining halls (85.4%) and safe disposal of chemical waste from laboratory (85.7%). Energy management, as well as waste and water management, are components of SDG 12, which promote responsible consumption and focus primarily on water, energy, and food.



Figure 5.3 Proposed Initiatives For Water And Waste Management



climate action is sustainable transportation. UiTM Sarawak has offered eight initiatives as listed in Table 5.4 that may be adopted. According to Figure 5.4, respondents selected initiative number seven on campus shuttle bus service (92.1%) and initiative number nine on linked pedestrian walk (93.3%) for sustainable mobility on campus. With the effort to implement both solutions on campus, it is hoped that it would assist to accomplish one of the SDG 13 objectives, namely mitigating climate change and decreasing the effects of climate change.



Figure 5.4 Proposed Initiatives For Sustainable Transportation

- Creating low emission zones (LEZ) in the campus
- 2 Monthly bicycle rental program for students
- Auxiliary police use electric scooters to patrol the campus
- 4 Plate recognition system to trace the vehicles entering campus
- 5 Create bike-friendly spaces in the campus
- **6** Organizing car-free day each month_____
- Campus shuttle bus service
- Connected pedestrian walks

 Table 5.4 List of questions on sustainable

 transportation



Greening Initiatives

With regards to the greening initiatives proposed in the survey, there are five initiatives proposed in the survey (Table 5.5). The survey result (Figure 5.5) shows that, initiative number 4 that is planting more shade trees in the campus is the most preferred greening initiative with 94.4 percent of the respondents choosing this initiative. The Greening initiatives is part of the campus effort towards reducing the impact of climatechange.



Figure 5.5 Proposed Greening Intiatives



Table 5.5 List of Greening Intiatives

In conclusion, the survey itself incorporates the campus community in its critical choice in moving towards a sustainable campus, and this is the first essential step in instilling a good attitude towards any sustainable practices that can be adopted at UiTM Sarawak.



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