

DEVELOP AND ANALYSIS OF SUSTAINABLE INTEGRATED SOLID WASTE MANAGEMENT SYSTEM

Seow Ta Wee

University Tun Hussein Onn Malaysia, Malaysia

Ineffective and unsystematic of municipal solid waste management (SWM) has affected the environment and human health. This paper is to develop and analysis sustainable integrated solid waste management system. For sustainable elements five indicators are identified. They are factor of landfill site chosen, recycling programme, public opinion, worker's health and safety, and management. Data and information were collected through questionnaire survey, giving more emphasis on qualitative aspect of integrated solid waste management. A total of 383 respondents were chosen to represent district population, 78 respondents are scavengers, 67 respondents are workers, and 48 respondents are residents who live around solid waste management facilities. The result shows that the existing solid waste management at the study are is unsystematic, even both municipal council and town council have proper solid waste management planning procedures. Less than 10% of respondents are willing to join the recycling programme, most of the respondents are satisfied with the existing solid waste management issues. Health is not a main issue for those working at solid waste management facilities as they do not assume that working at solid waste management facilities will affect their health and safety. Waste odour, flies, dust and skin diseases are the main problems faced by residents living in area surrounding solid waste management facilities. The result also shows that the level of integrated solid waste management in study area is at the unsustainable level with only 43% score. It is suggested that study area should enhance the indicators namely landfill site selection, recycling programme, worker's health and safety and management because these indicators have a high influence on other indicators to achieve the sustainable solid waste management.

Biography

Seow Ta Wee is an Associate Professor in Universiti Tun Hussein Onn Malaysia. he has 17 years of teaching, research and consultation experience. His transdisciplinary and interdisciplinary research united geography, environment, safety & health and social science into the current niche area of the research especially in the field of development and environmental management. He also had been appointed as the Guest Lecturer in Universities in Indonesia and Visiting Research Scholar in Sri Lanka. He also involved in research consultation at national level. He supervise more than 30 post graduate students included post-doctoral. Research interest is in field of environmental management, solid waste management, safety & health management, community development, regional transformation development, urban and rural development & environment.

tawee@uthm.edu.my