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## Exploring the opportunity for organic household waste (OHW) management technology options: An empirical investigation for Muharraq city

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Waste management is currently considered one of Bahrain's most important challenges, thus, exploring the opportunity for OHW through selecting the most preferred management solution for the Bahraini context seems to be necessary, especially with the appearance of the harmful effects of dumping it into the landfill. Moreover, exploring the socio-economic and environmental gains of the technology implementation helps the decision makers to have a clear vision for future waste management strategy adoption and policy making. This research aims to explore the opportunity for the OHW management options using the "Case Study" methodology on Muharraq City, via developing a profile/technology matrix from literature review. Empirical OHW samples chemical characterization, and exploring the most preferable OHW Management technology solutions based on Bahraini OHW characteristics criteria. Sustainability gains of the selected technology environmentally, economically and socially, and exploring the enablers and barriers to the technology adoption will be explored. Research methods are quantitative and qualitative approaches. Research provide sufficient information to future adoption of preferred OHW management technology in Bahrain and explore the barriers and enablers to its adoption which help in decision making, and give a full understanding of OHW characterization in Bahrain and suggest solutions to overcome barriers. Public awareness will be measured among public as an important key factor to succeed any waste management practices in the country. As a conclusion, the research may provide sufficient information to future adoption of specific OHW management technology in Bahrain and explore the barriers and enablers to its adoption which helps in decision making and gives a full understanding of the OHW characterization in Bahrain. The case study might be the first of its kind in the region and be a model to be applied to any country that share similar characteristics and waste composition.

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