



Cairo University

GREEN FOOD WASTE AS AN ENVIRONMENTAL RESOURCE IN RESIDENTIAL AREAS

By

Monica Michel Zacharia

A Thesis Submitted to the
Faculty of Engineering at Cairo University
in Partial Fulfillment of the
Requirements for the Degree of
MASTER OF SCIENCE
in
Architectural Engineering

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Title of Thesis:

Green Food Waste as an Environmental Resource in Residential Areas

Key Words:

Waste, Green food waste, Recycling, Municipal solid waste, Rooftop composting.

Summary:

The world is struggling with the 'Waste' crisis that has negative impact on the environment. This study aims at investigating potential solutions through recycling organic waste on site. Case study mapping with empirical methods were used for investigation. Findings were as follows: 1) a huge amount of municipal organic waste is missed during the traditional collecting process, 2) it takes a huge distance, energy and effort to reach the recycling factories or landfill, 3) compost can be produced on the rooftops. As a conclusion, residential composting can potentially reduce significant amounts of the municipal solid waste (MSW) generation in Egypt.

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Dedication

To the spirit of 'January 25' the Egyptian Revolution that encouraged me to stay in my country and try to solve some of its problems.

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