

Abstracts Book

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Introduction

Saudi Arabia's per capita consumption is considered among the highest in the world for some goods and services, which led to increased volume of solid waste generation. As a result, natural resources will be depleted and deteriorated due to this high consumption rates, which is regarded as an unsustainable practice.

Raising community awareness and addressing the challenges resulting from the risks associated with waste generation are the responsibility of every member of the society. All parties in the society were strongly urged to participate in awareness campaigns, educational forums and intellectual and economic forums and scientific conferences aimed at increased efficiency and raise awareness to curb natural resources depletion in Saudi Arabia.

Objectives

➤ **Clear Vision:**

Contribute to the preparation and development of a vision towards sustainable waste management at regional, national and international levels.

➤ **Rational Cost:**

Forecast the economic and environmental costs of wasting habits in Saudi Arabia and internationally, and to develop the most appropriate managerial policies.

➤ **Appreciation of Food Value:**

Discuss the best methods to manage and reduce food waste at food supply chain and consumer level.

➤ **Rewarded Opportunities:**

To urge integration of all partners and disciplines for sustainable waste management practices.

➤ **Attractive Investment:**

Determination of attractive opportunities for investment in waste recycling industry in the Kingdom.

➤ **Ambitious Investment:**

Study of investment hindrances in waste recycling industry in Saudi Arabia.

➤ **Responsible Citizen:**

Establishing a system of awareness raising, educational and environmental trainings that will target all sectors of society to achieve the desired goals.

➤ **Interconnected Team:**

Link scientific research and studies in Saudi and international universities with development requirements to meet national challenges.

➤ **First Topic:**

Effective management: Sustainable and integrated solid waste management at all stages and at all levels.

➤ **Second Topic:**

Appreciating food value: Management of food loss and food wastage at the level of production and consumption.

➤ **Third Topic:**

Attract investors: Investment in waste recycling industry: transformation-manufacturing industries

➤ **Fourth Topic:**

Responsible citizen: Wise waste management from religious , and cultural perspectives.

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Abstracts



Mechanisms to rationalize the food consumption of Saudi families As an entry point for food waste management in Saudi Arabia

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Abstract :

The National Vision sought to improve the urban structure of Saudi cities and improve the quality of municipal services by developing management policies and controlling urban development. The management of municipal solid waste is one of the challenges facing major city administrations in Saudi Arabia. Social transformations and economic and population growth over the past three decades have affected the food consumption patterns of Saudi households, accompanied by an increase in the volume of waste generated. Local statistics indicate that the level of food waste in Saudi cities exceeds 34%, with a loss of 250 kg per capita per year. Therefore, this paper aims to develop a number of mechanisms to rationalize food consumption and reduce bad food behaviors, which reflects positively on reducing the volume of waste generated in Saudi cities. The paper uses the theoretical and descriptive analytical approach based on reviewing a number of local and international literature and experiences and drawing the main lessons learned. To analyze the local reality, a class sample of 80 specialists and professionals from the Saudi Council of Engineers was extrapolated. The results found that 35% of the study sample spend between 1625%- of their monthly income in food consumption, with an average expenditure of 20%. The average consumer spending in Saudi Arabia is only 18%. However, the food consumption of 60% of Saudi households is above their actual needs, and there are no clear mechanisms to get rid of surplus food, where the percentage of food waste of the sample examined exceeds 1130%- of the total monthly waste. As a result, the study recommends the development of a comprehensive strategy for the management and rationalization of food waste within the framework of the initiative to establish a national program to reduce waste and waste from food consumption, integrating the role of society, government agencies, private sector institutions, charitable and cooperative sector.

Keywords :

Mechanisms, Rationalization, Food, Consumption, Waste, Waste Management, Saudi Arabia.



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