



PalStudent Journal
A Palestinian Scientific Journal for the Youth



ABSTRACTS: VOLUME 6, SPECIAL ISSUE

ABSTRACT

Circular Economy: The Silver Bullet to the Palestinian Solid Waste Problem

Qais Ayasa, Sobhi Samour.

Palestine, Al-Quds University, Al Quds Bard College, Economics.

Background: The research critically examines the feasibility of adopting a CE model to address the challenges of SWM in Palestine. It identifies the current waste management system as inefficient, with detrimental impacts on both the environment and the economy. The central thesis of the study is to assess whether a circular economy could be more effective than the existing LE, particularly in the context of a developing country like Palestine.

Research Questions:

- 1-Can a CE system work more efficiently than a linear system in a developing country like Palestine?
- 2- How can the CE synergize with the waste management system toward greener economic growth?
- 3- What strategies and policies can be implemented to improve SWM using CE principles?

Methods: The research analyzes the impact of the LM by providing a comprehensive analysis of the current state of SWM in Palestine, identifying key stakeholders, their roles, and the existing legislative framework. By offering this comprehensive analysis, it reveals several inefficiencies, such as predominant reliance on landfills and minimal recycling efforts, the aspects that require tackling, and the obstacles that will be encountered when implementing CE such as inadequate.

PalStudent Journal

Correspondence concerning this article should be addressed to the mentioned authors at the mentioned institutes.

Copyright © 2024 Al-Quds University, Deanship of Scientific Research. All rights reserved.

E-mail: research@admin.alquds.edu

Palestine, Abu Dis, Al-Quds University



Results: 1- Considering the current state of SWM, it was deduced that, in its nature, it embodied the LM. This was showcased by the various inefficiencies such as the almost non-existent recycling infrastructure and percentage of waste recycled and the large amount of waste generated. An add-on threat is the health risks and the long-term economic cost of dealing with the problems caused by this model

2- The research examined the alternative promising economic model, which is the CM. The model offers a sustainable approach that tackles and perceives waste as capital rather than a threat. The CM, due to its framework and values, aims to minimize waste and promote recycling and the regeneration of resources

3-Feasibility of CE Projects: The context of the framework of SWM is filled with challenges that ultimately translate in the lens of the CM to opportunities for economic growth and environmental sustainability projects like Al Nazazah Company in Jenin exemplify how CM practices can turn waste into profitable ventures, demonstrating the model's economic viability and environmental benefits

4-Exploring the opportunities for waste utilization: Half of the waste generated is organic and can be turned into organic fertilizer, which is extremely handy, efficient, and feasible in Palestine. By doing so, it will also support other vital sectors that will generate economic growth and sustainability.

5-Obstacles and Suggestions: The main obstacles include insufficient funding, restricted institutional capabilities, and the requirement for public involvement. Improving funding systems, forming successful public-private partnerships, educating the public, supporting research and development, encouraging local production, conducting thorough monitoring and evaluation, and building infrastructure are all necessary.

Conclusions: The research asserts that adopting a CE model in Palestine can transform a significant environmental threat into an opportunity for sustainable economic growth. It calls for policy reforms, capacity building, community engagement, and innovation to successfully implement the CE model on a macro scale.



PalStudent Journal
A Palestinian Scientific Journal for the Youth



Recommendations: the research offers recommendations for overcoming these challenges, including enhancing funding mechanisms, strengthening public-private partnerships, raising public awareness, and investing in infrastructure development.

Keywords: Circular Economy, Linear Economy, Solid Waste Management

PalStudent Journal

Correspondence concerning this article should be addressed to the mentioned authors at the mentioned institutes.

Copyright © 2024 Al-Quds University, Deanship of Scientific Research. All rights reserved.

E-mail: research@admin.alquds.edu

Palestine, Abu Dis, Al-Quds University