

عنوان مقاله:

Reverse Logistics Network Design For Waste Management Under Environmental Regulation (Case Study: Poultry Slaughterhouse in Mazandaran Province)

محل انتشار:

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نویسندگان:

Fatemeh Nikpour - *M.Sc., Amirkabir University of Technology, Department of Industrial Engineering and Management Systems*

Saeed Mansour - *Professor, Amirkabir University of Technology, Department of Industrial Engineering and Management Systems*

Pouya Norouzani Kohestani - *M.Sc., Amirkabir University of Technology, Department of Industrial Engineering and Management Systems*

خلاصه مقاله:

Due to population growth and human activities, irreversible impact is observed on the planet. Therefore, waste management of these activities has become one of the critical issues. Companies have recognized that reverse logistics is critical for their success. This paper focuses on the design of a reverse logistics network for waste processing. To handle the foregoing problem, a mixed-integer linear programming model with considering economic and environmental dimensions of sustainability is developed to maximize profits from sales of product against reducing processing, location and allocation, transportation, and penalty cost for excess CO₂ production. Then, a case study of poultry slaughterhouse waste processing in Mazandaran province was conducted to validate the efficiency of the proposed model and derive managerial insight. Numerical results and sensitivity analysis on some parameters are presented.

کلمات کلیدی:

Network Design, Reverse Logistics, Location-Allocation, Waste Management, CO₂ Emission

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