

## The role of software and tools in reverse logistics and effect on oily waste management

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### ABSTRACT

**Background:** The oil and gas industry faces significant challenges in the management of oily waste, which requires effective reverse logistics practices. The incorporation of software and tools in reverse logistics can potentially enhance the management of oily waste in the industry, but their effectiveness and implementation require exploration.

**Objectives:** The aim of this research was to explore the role of effective software and tools for managing oily waste in reverse logistics, highlight their importance, and identify industry-specific software and tools.

**Method:** A literature review was conducted, and industry-specific software and tools were identified through website analysis.

**Results:** Specific software and tools were found to be effective in managing oily waste in reverse logistics, and their use promotes sustainability in the supply chain.

**Conclusion:** The use of software and tools in reverse logistics is an effective approach for managing oily waste and promoting sustainability in the oil and gas industry. Incorporating technology into reverse logistics practices can help to address the challenges of oily waste management.

**Contribution:** This study contributes to the literature by providing insights into the potential of software and tools in reverse logistics for effective oily waste management in the oil and gas industry.

**Keywords:** Digital Transformation, Industry 4.0, Oily Waste Management, Reverse Logistics, Software and Tools, Supply Chain Management