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United States Solid Waste Management Vehicles Market By Vehicle (Auto Tipper or Hopper Tipper, Garbage Compactor Truck, Dumper Placer, Earth Moving Equipment), By Propulsion (CNG/LPG, Electric, ICE) By Application (Commercial, Industrial, Municipal, Residential), By Region, Competition, Opportunities and Forecast, 2020-2030F

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Abstracts

Market Overview

The United States Solid Waste Management Vehicles Market was valued at USD 52.57 billion in 2024 and is projected to reach USD 72.15 billion by 2030, growing at a CAGR of 5.42% during the forecast period. This market is evolving rapidly, driven by the convergence of sustainability goals and advancements in vehicle technologies. Rising urbanization, industrial activity, and consumer waste generation have heightened the demand for efficient waste collection systems. To meet this demand, municipalities and private operators are increasingly upgrading their fleets with technologically advanced vehicles. Key developments such as automation, improved payload efficiency, and environmentally friendly propulsion systems are reshaping the operational strategies of waste management across the country, aligning logistics with environmental and regulatory objectives.

Market Drivers

Stringent Environmental Regulations

Environmental regulations across the U.S. are becoming more rigorous, aimed at

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reducing emissions and enhancing urban air quality. Mandates from agencies like the California Air Resources Board (CARB), federal fuel economy standards, and regional zero-emission targets are pressuring both public and private waste operators to phase out older diesel fleets in favor of cleaner alternatives. As compliance becomes non-negotiable, operators are increasingly adopting electric, hydrogen-powered, and hybrid waste collection vehicles. These regulatory measures, supported by financial incentives and rebates, are driving innovation and fleet modernization. The emphasis on emissions reduction is acting as a catalyst, propelling the deployment of advanced vehicles throughout both densely populated cities and rural areas.

Key Market Challenges

High Capital Costs of Advanced Vehicles

A major hurdle facing the adoption of advanced solid waste management vehicles is the high upfront investment, especially for electric, hydrogen-powered, and automated models. Although these vehicles promise long-term operational savings, their initial cost remains two to three times higher than conventional diesel alternatives. For smaller municipalities and independent waste operators with limited budgets, this expense can be prohibitive—even with the availability of incentives. Additional infrastructure costs, such as those for charging stations or maintenance facilities, further increase the financial burden. The slow return on investment and need for technological infrastructure continue to challenge broad adoption, delaying fleet upgrades for many stakeholders.

Key Market Trends

Electrification of Refuse Fleets

The shift toward electric refuse vehicles is gaining momentum in the United States, driven by sustainability targets and advancements in battery technology. Municipalities and private companies are increasingly incorporating electric trucks into their fleets to cut carbon emissions and reduce noise levels—particularly beneficial for urban neighborhoods. As battery range and cost efficiency improve, electric vehicles are becoming more viable for full-day operations. Supportive policies, ESG commitments, and federal/state-level incentives are further propelling this transition. Numerous cities have initiated pilot programs or made pledges to transition to fully electric fleets in the coming years. With more models entering the market and greater investments in charging infrastructure, electric refuse trucks are moving from trial phases to

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mainstream deployment.

Key Market Players

Autocar, LLC

Casella Waste Systems, Inc.

Clean Harbors, Inc.

GFL Environmental Inc.

Labrie Enviroquip Group

McNeilus Truck and Manufacturing, Inc. (a subsidiary of Oshkosh Corporation)

New Way Trucks (Scranton Manufacturing Company)

Republic Services, Inc.

The Heil Company (Environmental Solutions Group)

Waste Management, Inc.

Report Scope:

In this report, the United States Solid Waste Management Vehicles Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

United States Solid Waste Management Vehicles Market, By Vehicle:

Auto Tipper or Hopper Tipper

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Dumper Placer

Earth Moving Equipment

Garbage Compactor Truck

United States Solid Waste Management Vehicles Market, By Propulsion:

CNG/LPG

Electric

Internal Combustion Engine (Diesel, Petrol)

United States Solid Waste Management Vehicles Market, By Application:

Commercial

Industrial

Municipal

Residential

United States Solid Waste Management Vehicles Market, By Region:

South

Midwest

West

Northeast

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the United States Solid Waste Management Vehicles Market.

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Available Customizations:

United States Solid Waste Management Vehicles Market report with the given market data, TechSci Research, offers customizations according to the company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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