NEW YORK, Sept. 10, 2013 /PRNewswire/ -- Reportlinker.com announces that a new market research report is available in its catalogue:

Global Smart Waste Recycling Market http://www.reportlinker.com/p01619070/Global-Smart-Waste-Recycling-Market.html#utm_source=prnewswire&utm_medium=pr&utm_campaign=Recycling

This Market Insight provides an overview of the global smart waste recycling markets. The study looks at the smart recycling technology aspect of solid waste management. It also describes the current status of the smart recycling market and analyses the influence of key market drivers and restraints. It also delves into details of current smart recycling options and offers a perspective on the future of development of solid waste management.

Introduction

The World Bank estimates that in 2012, X billion tons of solid waste was generated across the globe1.It also expects that by 2025, solid waste generation will reach X billion tons per year as a result of excessive consumption of goods and high urbanisation around the world. Construction and demolition (C&D) account for a majority of the collected weight and municipal solid waste (MSW) is the second most significant source of waste. Rest of the materials are related to industrial and production waste, mining waste, and others (energy generation, chemical industry, agriculture and forestry, etc.).

The global waste management services market has significant potential to develop, especially because nearly X% of the X billion tons of solid waste generated can be easily recycled2.It is observed that currently, most rapidly growing recyclable fractions around the world belong to

packaging waste such as plastic, paper, and glass.

Recycling is a combination of several individual processes, which are integrated in one chain to obtain the required final characteristics. The process flow depends on the source of the waste, its type, and the complexity of primary material composition. Waste such as electric and electronic equipment waste (WEEE) or modern end of life vehicle (ELV) require very sophisticated sorting and recycling solutions, which are the currently the focus of development of many recycling companies.

Smart recycling systems are the answer to long standing needs of waste management companies, whose problems are mostly related to quality and quantity of collected waste, efficiency of overall processes, as well as the downstream material value offered to final customers. Smart technologies and solutions are related to all aspects of waste management, where Information Communication Technology (ICT) can be applied as hardware, software or used as a total solution.

Moreover, smart recycling systems are increasing the overall efficiency of the waste management process and as a result, they are having a positive impact on the specific cost of internal treatment (measured in € per ton), therefore, improving the bottom line of operations. Smart revolution in the waste industry is also positively influencing all market participants such as individual clients, municipalities, and waste management companies, as it is provides a collaborative platform for good data exchange and promotes greater cooperation.

Smart Recycling Market Description

Smart technology and solutions are applied to all phases of waste management and cover operations, logistics, and processing phases of waste management. In this study the logistics phase relates to collection and transportation aspects. The material processing phase includes sorting of waste into specific streams and in some cases further processing of waste.

The operation phase, which is based on waste treatment process planning and analysis of obtained data, is beyond the scope of this study.

Smart Waste Recycling Market: Waste Management Phases and Smart Recycling Solution Applications, Global, 2012

Waste Management Phase: Operation**Sub-Phase:** Planning/Analysis**Challenge:** Material Volume, type and Quality/Seasonal Changes
Result:
Forecasting and estimation of material and optimal process application

Waste Management Phase: Logistic**Sub-Phase:** Collection/Logistic**Challenge:** Container type/Truck type/Route planning/Fuel use/Timing
Result:
Application of optimal solutions in time, fuel use and asset management

Waste Management Phase: Processing**Sub-Phase:** Sorting/Processing**Challenge:** Process efficiency/Level of byproducts/Quality of final material
Result:
Material quality recognition, highest efficiency of process with lowest generation of byproducts

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