

Market Analysis for 9th International Conference on Recycling and Waste Management, November 30- December 01, 2020, Dubai, UAE

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Recycling is one of the main support system of circular economy, having the primary objective of transforming one industries by-product into raw materials for various industries. The waste management market is pacing at a faster pace with time, according to current report the waste market is expected to reach \$435 billion by 2023 from \$285 billion in 2016. The annual growth rate is (CAGR) of 6.2% from 2017 to 2023. Among all the continents Europe has the highest share of the Waste Management Industry. The government initiatives to maintain a clean and green environment plays an important role in boosting the waste management market.

The waste management market is classified based on three most important segments: Type, region and service. Again on basis of waste type market can be divided into industrial waste, municipal waste and hazardous waste. For the last two years according to the reports of 2017, the municipal waste market ruled in terms of revenue, and trend predicts that it will continue for the following years. In terms of service the market is divided into parts: One deal with the collection service and the other is disposal service. In Region wise, the market is divided into 4 sections across the world: North America, Europe, LAMEA and Asia- Pacific. In this sector, Europe has the major control over the waste management market share as they possess government support along with sophisticated high-class technology.

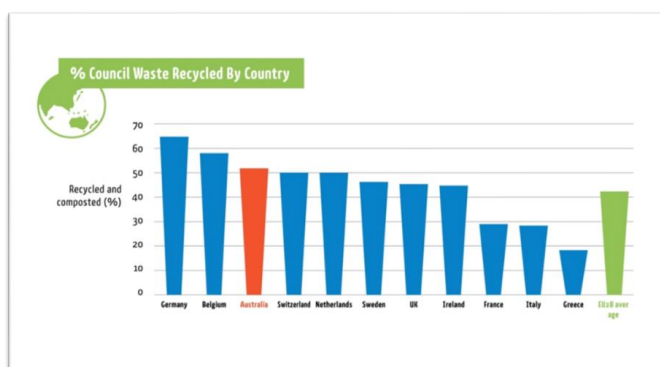


Figure 1: Waste Recycled Country wise

Key players in Waste Management Market

Clean Harbors

Daiseki Co. Ltd

Advanced Disposal Services

Suez Environment S.A.

Veolia Environment S.A

Biffa Group

Remondis AG & Co. Kg

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Waste Management Inc.

Waste Connections

Advanced Disposal

Casella

Republic Services

Drywall Recycling Services Inc

Waste Industries

Lake Shore Recycling System

Progressive Waste Solutions

The key market players followed some strategies like partnership, product launch, collaboration and business expansion.

Top Universities

University of Central Lancashire

University of Leeds

Swansea University

University of Bordeaux

Institute of Technology, Carlow

KU Leuven

University of Edinburgh

University of California, Berkeley

Stanford University

Massachusetts Institute of Technology

Wageningen University

Harvard University

University of Oxford

University of Cambridge

Imperial College London

University of British Columbia

National University of Singapore

The University of Queensland

Between 1991 and 2002, the per capita consumption of plastics increased in Western Europe from 64 to 95 kg/inh/year, an average growth of 3 per cent per year (pa). In 2002, the

Organisation for Economic Cooperation and Development (OECD) estimated that the waste plastics represent 8 per cent of the mass – but 20 per cent of the volume - of MSW in Western Europe. The evolution of municipal waste in Paris is illustrative. In the 1940s, the Parisian citizen created 240 kg pa MSW. This contained almost no plastics, which started to appear in the 1950s. By 1970, waste arising had grown (to 415 kg per inhabitant pa) and plastics comprised almost 5 per cent of the average rubbish bin. In 1980, the proportion had risen to 8 per cent (of 477 kg). In 1990, 11 per cent (of 558kg) of the waste comprised plastics and in 2000 the figure had reached 13 per cent (of 588 kg).

Members Associated With Recycling:

Resin producers
 Plastic collectors and reclaimers
 Consumers of recycled resin
 Plastics converters and compounders
 Government recycling officials
 Equipment producers
 Waste haulers
 Brand owners
 Retailers
 Packaging and label designers and producers
 Bag and film manufacturers
 Environmental organizations
 Scrap plastic product makers
 Collectors and materials recovery facility operators
 Resin brokers
 Clean-tech investors
 Other investors

Target Audience:

Scientist: 50%
 Academia: 30%
 Others: 20%

Major Societies associated with Recycling around the globe:

Canadian Association of Recycling
 The Electronic Recycling Association
 Canadian Association Of Recycling Industries
 Alberta Council of Recycling
 Recycling Council of Ontario
 Ridge Meadows Recycling Society
 German recycling system
 BDE Federation of the German Waste, Water and Raw Materials Management Industry
 Quest Resource Management Group, USA

Effective Environmental, USA
 Sage Environmental Consulting
 Accent Wire
 Dexter Field Services
 CompuCycle

Atlantic Duct Cleaning, Nature Track

Revenue Generated by Industries:

According to the market study, Germany renewable sector is among the most Innovative and successful worldwide. Contrary to some recent articles proclaiming that the recycling industry is struggling, the recycling industry continues to be an enormous economic driver in the United States. In 2014, the recycling industry employed more than 1.1 million people, generated over \$236 billion in gross annual revenues and saved municipal budgets over \$3 billion in avoided landfill disposal fees.

HDPE plastic (laundry detergent, shampoo bottles) would earn a profit of \$250 per ton, to be split by the municipality and recycling company. Aluminium would earn a profit of \$1,325 per ton, to be split by the municipality and recycling company — all good news for municipalities, recycling companies and our environment. PET plastic (beverage bottles) would earn a profit of \$150 per ton, to be split by the municipality and recycling company

Investment on recycling technologies:

In volume, PET is currently the number one recycled resin. Supply of recycled PET is in excess of 800 million pounds per year. This figure is expected to grow, reaching over 1 billion pounds during the next few years. The plastics industry has developed new markets and applications for recycled resins from both post-consumer and post-industrial sources Total market demand is reported as 1.2 billion pounds per year. Since only 800 million pounds are processed in the USA, consumers are forced to look at wide spec virgin PET (virgin resin that is outside of spec but still usable) which is normally sold at a discount to virgin prices, but still higher than recycled (RPET) pricing. Some manufacturers are also forced to import materials from Mexico, India and South America. Some converters are being forced to use more expensive virgin resin. The current pricing for virgin resin is \$0.65-0.73 per lb and \$0.42-.53 for RPET flake. The spread between the two has traditionally been maintained at approximately \$0.20 per lb. The total reported market of extruded film and sheet is 872 million pounds, of which identified industry usage of RPET is 160 million pounds. The reported market demand (to replace virgin PS, PVC and PET) if RPET was available is estimated at 1 billion pounds. Current pricing for RPET sheet is \$0.70-0.79 per lb. The total reported domestic plastic strapping market is 240 million pounds. Of this market, industry usage of virgin polypropylene is 132 million pounds and of PET is 108 million pounds. It is generally accepted in the industry that less expensive strapping made from RPET could not only take over the polypropylene strapping market, but convert as much of the much larger and more expensive steel strapping

market as RPET strapping was available. Current pricing for RPET strapping is \$0.90 -1.08 per lb.