Waste Business Journal’s

Waste Market Overview & Outlook

2019

- Size of the Industry
- Collection, Processing, Disposal
- Major Players
- Waste Equipment
- Universal Wastes
- Pricing, Volumes & Capacity
The data contained herein is for the express use of the purchaser and is protected under the U.S. Copyright Laws. Any sale or distribution of these materials without prior written approval of Waste Business Journal is expressly prohibited and will be prosecuted under the full extent of the law.

Waste Business Journal also requires a full citation if data or conclusions contained in the book Waste Market Overview & Outlook 2019 (heretofore known as “The Waste Market Overview & Outlook”) are used in any other publication, published report, or paper. A suggested citation is:


The author and publisher have used their best efforts in preparing the “Waste Market Overview & Outlook.” However, the author and publisher provide this book “as is” without warranty of any kind, either expressed or implied, including but not limited to implied warrantees of fitness for a particular purpose. Additionally, the author and the publisher make no warranty with regard to the documentation or data contained herein. The author and the publisher are not liable in the event of incidental, special, consequential, or any other damages in connection with or arising out of provision, performance, or use of the “Waste Market Overview & Outlook.”

Printed on Recycled Paper
TABLE OF CONTENTS

1 ABOUT WASTE BUSINESS JOURNAL..................................................................................................................1

1.1 About James Thompson, Jr. ..............................................................................................................................1

1.2 Disclaimer of Warranty ......................................................................................................................................2

1.3 Discrepancy with Numbers Published by the US EPA ......................................................................................2

1.4 Research Methodology ......................................................................................................................................3

2 RECENT EVENTS & HISTORY ............................................................................................................................5

2.1 Market Overview..............................................................................................................................................5

Industry Revenues Have Grown Steadily ................................................................................................................5
Composition by Market Participant (towards industry consolidation) ......................................................................5
Composition by Activity .......................................................................................................................................5
Waste Generation and Recovery ..........................................................................................................................6
Disposal Pricing ...................................................................................................................................................6
Remaining Landfill Capacity Projected to Shrink by 2023 ....................................................................................7
Landfill Capacity by Market Participant ...............................................................................................................7

2.2 Recent Events ..................................................................................................................................................8

China’s Ban ..............................................................................................................................................................8
Further Industry Consolidation ............................................................................................................................8
Food Waste gets More Focus ................................................................................................................................9
Franchise Markets in LA and New York ................................................................................................................10
Laissez Faire EPA .................................................................................................................................................11
States Move to Regulate Coal Ash Themselves .................................................................................................11
First New WTE Facility in 20 Year Opens ............................................................................................................12
Increased Focus on Industry Safety ...................................................................................................................12
Ongoing debate over how to define "zero waste" .................................................................................................13
Ever Newer and Increased Deployment of Technology ....................................................................................14

2.3 Economic Outlook ........................................................................................................................................16

2.4 History ............................................................................................................................................................17

Highly fragmented, low technology, and low cost .............................................................................................17
Contents

Changes in regulations .............................................................................................................................................. 17
Waste disposal crisis of the late 80’s .................................................................................................................... 18
Economic and political incentive to increase recycling ....................................................................................... 19
Incentive to shop for lower disposal fees ............................................................................................................. 19
Barriers to mobility: Flow control, Import bans and other legislative obstacles .............................................. 19
Waste is increasingly hauled further away from the source of its generation .................................................. 20
Effect of regulation on industry participants ........................................................................................................ 20
Overbuilding and excess disposal capacity ......................................................................................................... 20
Rising role of the private sector .......................................................................................................................... 20
Rising materials recovery rates .......................................................................................................................... 21
Problem of demand and capacity for recovered materials .................................................................................. 21
Reengineering manufacturing to take advantage of recovered materials ....................................................... 21
Maturing market for recovered materials .......................................................................................................... 22

3 SOLID WASTE MANAGEMENT ....................................................................................................................... 23

3.1 Industry Overview: Size and Segments .......................................................................................................... 23
Defining the Market .................................................................................................................................................. 23
Key Segments .......................................................................................................................................................... 26
Key Players .............................................................................................................................................................. 28
Supremacy of the publicly traded companies ...................................................................................................... 31
Pricing Discipline .................................................................................................................................................... 32
Rising Fuel, Equipment, Insurance and Labor costs may provide incentive to hold pricing .......................... 32
Waste by Rail ......................................................................................................................................................... 33
Personnel ............................................................................................................................................................... 33
M&A Activity ........................................................................................................................................................ 34
Vertical Integration through roll ups and “tuck-ins” .............................................................................................. 35
Efficiency through Technology and Route Optimization ..................................................................................... 36
Full Service Approach ....................................................................................................................................... 36
Repackaging themselves as Green Companies .................................................................................................. 37

3.2 Industry Overview: Total Generation, Recovery & Disposal .................................................................. 38
Municipal Solid Waste Generation and Disposal Trends .................................................................................. 38
Industry Consolidation ......................................................................................................................................... 40
Growing Network of Transfer Stations ............................................................................................................... 41
Solid Waste Management Segments .................................................................................................................. 41

3.3 Collection Markets ....................................................................................................................................... 43

Waste Market Overview & Outlook 2019
**Contents**

4.2 Leading Firms in Waste to Energy ................................................................................................................................. 98

4.3 Industry Mergers and Acquisitions ................................................................................................................................. 102
Trends to look for in the coming year: ........................................................................................................................................ 124

4.4 Municipal Solid Waste Authorities ................................................................................................................................. 125

5 LANDFILL CAPACITY ......................................................................................................................................................... 126

6 DISPOSAL VOLUMES AND PRICING ............................................................................................................................ 135

7 MATERIALS RECOVERY ..................................................................................................................................................... 144
Market Definition ......................................................................................................................................................................... 144

7.1 Market Review ...................................................................................................................................................................... 145

7.2 Resource Recovery Market .................................................................................................................................................. 149
Introduction / Recent Events ...................................................................................................................................................... 149
A Brief History of Recycling .................................................................................................................................................... 152
Economics of Recycling ............................................................................................................................................................ 153
Collection Methods: Single-stream vs. Dual-stream .................................................................................................................. 155
Changing Composition of Recyclables .................................................................................................................................... 156
The Great Wall of China ........................................................................................................................................................... 158
The Good News .......................................................................................................................................................................... 161
State Legislatures Push More Recycling Measures Including Landfill Bans ................................................................. 162
“Circular economy” and “zero waste” ..................................................................................................................................... 163
Product Stewardship ................................................................................................................................................................ 164
Electronics Products Stewardship .......................................................................................................................................... 164
Life-Cycle Assessment .............................................................................................................................................................. 165

7.3 Paper Recycling ................................................................................................................................................................. 167

7.4 Plastic Recycling ................................................................................................................................................................. 171

7.5 Aluminum Recycling .......................................................................................................................................................... 176
The Future ................................................................................................................................................................................... 178

7.6 Steel Recycling ................................................................................................................................................................. 183
7.7 Glass Recycling ......................................................................................................................... 188

7.8 Largest Recycling Companies ................................................................................................... 191

8 OTHER SOLID WASTE MANAGEMENT SEGMENTS: SPECIAL AND INDUSTRIAL WASTES 195

8.1 Scrap Tire Recycling .................................................................................................................. 195

8.2 Construction & Demolition Debris Disposal and Recycling ....................................................... 201

Some Definitions: ............................................................................................................................ 202

Relevant Regulations ......................................................................................................................... 203

Components of Construction and Demolition Debris Wastes ......................................................... 203

C&D Pricing follows a similar pattern to that of MSW ................................................................. 212

MSW Pricing Historically Reflects Ratio of Demand for Disposal to Available Capacity (Supply) ................................................................. 214

Available Disposal (Supply) is Represented by Proximity to Landfills and Waste-to-Energy Plants ........................................................................... 215

8.3 E-Wastes .................................................................................................................................. 219

Need for Recovery .......................................................................................................................... 221

European Model ............................................................................................................................. 223

Take-back Programs ......................................................................................................................... 224

Manufacturers Approach ................................................................................................................. 224

Firms Engaged in Recovery .............................................................................................................. 224

Lack of Regulation Deters Investment ............................................................................................ 224

Lack of Regulation and Certification ............................................................................................ 225

Exporting E-Waste .......................................................................................................................... 225

Responsible Management .............................................................................................................. 226

Screwdriver Operations .................................................................................................................. 229

Should E-waste Recycling Count Towards State Goals? ............................................................... 235

8.4 Lamp Recycling ...................................................................................................................... 241

9 WASTE CONVERSION ........................................................................................................... 244

Overview ......................................................................................................................................... 244

Business Climate for Waste Conversion ...................................................................................... 246

9.1 Waste-to-Energy ..................................................................................................................... 247
11.2 Waste Management Equipment Company Profiles

Compaction America ................................................................. 309
Heil Environmental Industries ................................................... 311
Morbark Inc............................................................................. 314
Rehrig Pacific Company ............................................................ 316
Leach Company ..................................................................... 319
Wastequip ............................................................................ 321

11.3 Leading Companies in Waste Management Equipment .................................................. 324
LIST OF EXHIBITS

FIGURE 1 HISTORICAL AND PROJECTED GROWTH OF THE WASTE MANAGEMENT INDUSTRY .............................................24
FIGURE 2 COMPONENTS OF THE MUNICIPAL SOLID WASTE (MSW) STREAM IN 2017 ......................................................25
FIGURE 3 CHANGE IN COMPOSITION OF THE MSW WASTE STREAM SINCE 1960 ..............................................................25
FIGURE 4 COMPONENTS OF THE MUNICIPAL SOLID WASTE (MSW) STREAM IN 1960 AND 2020 ...................................26
FIGURE 5 BREAKDOWN OF THE $76 BIL. US WASTE MANAGEMENT INDUSTRY ...............................................................27
FIGURE 6 INDUSTRY REVENUES BY PARTICIPANT (GOVERNMENT, PUBLIC & PRIVATE COMPANIES) 2018 ..................29
FIGURE 7 INDUSTRY REVENUES BY PARTICIPANT ..............................................................................................................30
FIGURE 8 INDUSTRY REVENUES BY PARTICIPANT ..............................................................................................................31
FIGURE 9 TOTAL AND PER CAPITA SOLID WASTE GENERATION IN THE US BY YEAR ..................................................39
FIGURE 10 WASTE GENERATION, RECOVERY AND DISPOSAL BY YEAR ..........................................................41
FIGURE 11 GROWTH IN THE NUMBER OF US CURBSIDE RECYCLING AND COMPOSTING PROGRAMS BY YEAR ........41
FIGURE 12 LANDFILL VS. WTE OF POST-RECOVERY SOLID WASTE BY YEAR .........................................................60
FIGURE 13 VOLUME OF WASTE ACCEPTED INTO MSW LANDFILLS BY TYPE OF OWNER ..............................................66
FIGURE 14 DECLINING NUMBER OF ACTIVE MSW LANDFILLS BY TYPE OF OWNER ..................................................67
FIGURE 15 AVERAGE ANNUAL LANDFILL VOLUME PER LANDFILL BY YEAR ..........................................................68
FIGURE 16 AVERAGE ANNUAL LANDFILL VOLUME BY TYPE OF OWNERSHIP AND YEAR ..............................................69
FIGURE 17 INCREASING NUMBER OF TRANSFER STATIONS AND MRFS EACH YEAR ...............................................70
FIGURE 18 INCREASING MOVEMENT OF WASTE INTERSTATE WITH PROJECTIONS ..............................................77
FIGURE 19 LANDFILL VOLUME OF MSW BY REGION IN 2018 ..........................................................................................78
FIGURE 20 DESTINATION OF MSW WASTE GENERATED BY REGION IN 2018 ..........................................................79
FIGURE 21 MSW LANDFILL VOLUME BY REGION AND BY YEAR ..................................................................................80
FIGURE 22 INDUSTRY REVENUES BY PARTICIPANT ..............................................................................................................85
FIGURE 23 MARKET SHARE BY SEGMENT IN 1998 AND 2018 ..................................................................................86
FIGURE 24 HISTORICAL AND PROJECTED GROWTH OF THE WASTE MANAGEMENT INDUSTRY BY PARTICIPANT ...88
FIGURE 25 SHARE OF MSW LANDFILL VOLUME BY OWNER IN 2018 ..........................................................89
FIGURE 26 MSW LANDFILL VOLUME BY OWNER IN THE PRIVATE SECTOR IN 2018 ..............................................91
FIGURE 27 VALUE OF MAJOR M&A DEALS BY YEAR ..........................................................................................104
FIGURE 28 REMAINING LANDFILL CAPACITY (SUPPLY) BY YEAR ..............................................................................127
FIGURE 29 REMAINING LANDFILL CAPACITY (SUPPLY) BY TYPE OF OWNER AND YEAR ..............................................128
FIGURE 30 REMAINING LANDFILL CAPACITY (SUPPLY) VERSUS LANDFILL VOLUME (DEMAND) BY YEAR ..............129
FIGURE 31 AVERAGE LANDFILL CAPACITY EXPANSION BY YEAR ..................................................................................130
FIGURE 32 REMAINING MSW LANDFILL CAPACITY BY REGION IN 2018 ..........................................................131
FIGURE 33 REMAINING CAPACITY BY REGION AND YEAR WITH PROJECTIONS THROUGH 2023 ................................132
FIGURE 34 REMAINING MSW LANDFILL CAPACITY BY OWNER ENTITY IN 2018 ..........................................................133
FIGURE 35 LANDFILL PRICING (TIP FEES) FOR MSW BY YEAR ..................................................................................139
FIGURE 36 LANDFILL PRICING (TIP FEES) FOR MSW BY TYPE OF OWNER AND YEAR ..............................................140
FIGURE 74 VOLUME OF ORGANIC WASTES COMPOSTED OR DISPOSED BY YEAR .......................................................... 262
FIGURE 75 VOLUME OF WOOD WASTES GENERATED AND RECYCLED BY YEAR ........................................................... 281
FIGURE 76 UNIQUE LANDFILL GAS-TO-ENERGY PROJECTS BY YEAR ................................................................................ 288
FIGURE 77 LANDFILL GAS-TO-ENERGY PROJECT CUMULATIVE CAPACITY BY YEAR ................................................................. 289
FIGURE 78 U.S. WASTE MANAGEMENT EQUIPMENT INDUSTRY: 2018 ................................................................................. 299
FIGURE 79 GROWTH IN WASTE MANAGEMENT EQUIPMENT 1992-2018 WITH PROJECTIONS TO 2023 ................. 303
LIST OF TABLES

TABLE 1 US ECONOMIC OUTLOOK ................................................................................................................................................. 16
TABLE 2 SUBTITLE D REQUIREMENTS .......................................................................................................................................... 18
TABLE 3 INDUSTRY REVENUES BY PARTICIPANT AND TYPE OF ACTIVITY IN 2018 ............................................................. 28
TABLE 4 STRUCTURE OF THE U.S. SOLID WASTE INDUSTRY IN 2018 .................................................................................... 36
TABLE 5 STRUCTURE OF THE U.S. SOLID WASTE INDUSTRY IN 1998 .................................................................................... 36
TABLE 6 EXISTING AND PROJECTED SOLID WASTE MARKET BY PARTICIPANT AND YEAR ......................................................... 37
TABLE 7 SOLID WASTE MARKET VOLUME IN 2018 .................................................................................................................... 38
TABLE 8 SOLID WASTE MARKET VOLUME FROM 2009 TO 2018 .............................................................................................. 40
TABLE 9 SOLID WASTE COLLECTION MARKETS, 2014 TO 2018 ............................................................................................ 43
TABLE 10 SOLID WASTE TRANSFER AND PROCESSING MARKETS, 2014 TO 2018 ................................................................ 47
TABLE 11 SOLID WASTE DISPOSAL MARKETS, 2014 TO 2018 .............................................................................................. 52
TABLE 12 TYPICAL LANDFILL OPERATING & MAINTENANCE COSTS .................................................................................. 57
TABLE 13 TYPICAL WASTE-TO-ENERGY OPERATING & MAINTENANCE COSTS .................................................................. 62
TABLE 14 LANDFILL VOLUME OF MSW BY REGION IN 2018 .................................................................................................... 78
TABLE 15 SOLID WASTE GENERATION, RECOVERY AND DISPOSAL IN THE NORTHEAST IN 2018 ........................................... 81
TABLE 16 SOLID WASTE GENERATION, RECOVERY AND DISPOSAL IN THE SOUTHEAST IN 2018 ........................................... 81
TABLE 17 SOLID WASTE GENERATION, RECOVERY AND DISPOSAL IN THE MIDWEST IN 2018 ............................................. 82
TABLE 18 SOLID WASTE GENERATION, RECOVERY AND DISPOSAL IN THE WEST IN 2018 .................................................. 82
TABLE 19 SOLID WASTE GENERATION, RECOVERY AND DISPOSAL IN THE PACIFIC IN 2018 .................................................. 83
TABLE 20 SOLID WASTE GENERATION, RECOVERY AND DISPOSAL IN THE US IN 2018 .................................................... 83
TABLE 21 MSW LANDFILL VOLUME BY OWNER IN 2018 .......................................................................................................... 90
TABLE 22 SHARES OF TOP PUBLIC COMPANIES: 2018 ............................................................................................................. 93
TABLE 23 LEADING COMPANIES IN SOLID WASTE MANAGEMENT ....................................................................................... 94
TABLE 24 SUMMARY OF WASTE-TO-ENERGY ENTITIES IN 2018 ........................................................................................ 98
TABLE 25 WASTE-TO-ENERGY PLANTS RANKED BY PROCESSING TONNAGE IN 2018 ......................................................... 99
TABLE 26 NOTABLE MERGERS AND ACQUISITIONS IN THE WASTE MANAGEMENT INDUSTRY ............................................. 106
TABLE 27 REMAINING MSW LANDFILL CAPACITY BY OWNER ENTITY IN 2018 ................................................................. 134
TABLE 28 LANDFILL DISPOSAL VOLUMES AND TIPPING FEES FROM 2009 TO 2018 IN THE NORTHEAST ....... 135
TABLE 29 LANDFILL DISPOSAL VOLUMES AND TIPPING FEES FROM 2009 TO 2018 IN THE SOUTHEAST ................... 136
TABLE 30 LANDFILL DISPOSAL VOLUMES AND TIPPING FEES FROM 2009 TO 2018 IN THE MIDWEST ....................... 137
TABLE 31 LANDFILL VOLUMES AND TIPPING FEES FROM 2009 TO 2018 IN THE WEST ............................................. 137
TABLE 32 LANDFILL DISPOSAL VOLUMES AND TIPPING FEES FROM 2009 TO 2018 IN THE PACIFIC ......................... 138
TABLE 33 LANDFILL DISPOSAL VOLUMES AND TIPPING FEES FROM 2009 TO 2018 IN THE US ................................. 138
TABLE 34 MATERIALS RECOVERY RATE IN THE NORTHEAST FROM 2009 TO 2018 ......................................................... 145
TABLE 35 MATERIALS RECOVERY RATE IN THE SOUTHEAST FROM 2009 TO 2018 ............................................................ 146
TABLE 36 MATERIALS RECOVERY RATE IN THE MIDWEST FROM 2009 TO 2018 ............................................................ 147
TABLE 37 MATERIALS RECOVERY RATE IN THE WEST FROM 2009 TO 2018 ................................................................. 147
TABLE 38 MATERIALS RECOVERY RATE IN THE PACIFIC FROM 2009 TO 2018 ............................................................. 148
TABLE 39 MATERIALS RECOVERY RATE IN THE US FROM 2009 TO 2018 ................................................................. 148
TABLE 40 WASTE PAPER - EXPORTS AND DOMESTIC, 1994-2018 ............................................................................... 169
TABLE 41 PLASTIC - EXPORTS AND DOMESTIC, 1994-2018 ....................................................................................... 174
TABLE 42 ALUMINUM CANS - EXPORTS AND DOMESTIC, 1994-2018 .............................................................. 179
TABLE 43 ALUMINUM SCRAP - EXPORTS AND DOMESTIC, 1994-2018 .............................................................. 181
TABLE 44 STEEL/FERROUS SCRAP - DOMESTIC AND EXPORTS 1994-2018 ................................................................. 184
TABLE 45 STATES WITH BOTTLE BILLS .................................................................................................................. 190
TABLE 46 LARGEST RECYCLING COMPANIES IN THE US .............................................................................................. 191
TABLE 47 GENERATION OF SCRAPS TIRE IN THE US IN 2017 ..................................................................................... 195
TABLE 48 GENERATION, RECOVERY AND DISPOSAL OF USED TIRES BY YEAR .......................................................... 197
TABLE 49 FATE OF RECOVERED TIRES BY YEAR ......................................................................................................... 198
TABLE 50 DESTINATION OF TIRE- DERIVED FUEL BY YEAR ...................................................................................... 199
TABLE 51 CONSTRUCTION & DEMOLITION DEBRIS (C&D) GENERATION, RECOVERY AND DISPOSAL IN 2018 .......... 202
TABLE 52 AVERAGE COMPOSITION OF RESIDENTIAL CONSTRUCTION DEBRIS (2015) .................................................... 203
TABLE 53 C&D DEBRIS GENERATED IN 2015 BY MATERIAL AND SOURCE .................................................................. 204
TABLE 54 MATERIAL GENERATED BY PHASE OF CONSTRUCTION OR DEMOLITION (2015) .................................................. 207
TABLE 56 CONSTRUCTION & DEMOLITION DEBRIS (C&D) GENERATION, RECOVERY AND DISPOSAL BY YEAR (PROJECTIONS THROUGH 2023) ................................................................. 212
TABLE 57 US GROSS DOMESTIC PRODUCT (GDP) AND CONSTRUCTION SPENDING BY YEAR ....................................... 214
TABLE 58 C&D DISPOSAL VOLUME AND PRICING BY STATE IN THE NORTHEAST IN 2018 .................................................. 216
TABLE 59 C&D DISPOSAL VOLUME AND PRICING BY STATE IN THE SOUTHEAST IN 2018 .................................................. 216
TABLE 60 C&D DISPOSAL VOLUME AND PRICING BY STATE IN THE MIDWEST IN 2018 .................................................... 217
TABLE 61 C&D DISPOSAL VOLUME AND PRICING BY STATE IN THE WEST IN 2018 ......................................................... 217
TABLE 62 C&D DISPOSAL VOLUME AND PRICING BY STATE IN THE PACIFIC IN 2018 ......................................................... 218
TABLE 63 C&D DISPOSAL VOLUME AND PRICING BY STATE IN THE US IN 2018 ........................................................... 218
TABLE 64 LARGEST E-WASTE PROCESSORS IN THE US .................................................................................................... 234
TABLE 65 STATES WITH ELECTRONICS RECYCLING REGULATIONS .............................................................................. 235
TABLE 66 YEARLY VOLUME OF FOOD WASTE ENTERING THE WASTE STREAM ............................................................ 253
TABLE 67 ELECTRICITY NET GENERATION FROM RENEWABLE ENERGY ............................................................... 282
TABLE 68 STATES WITH OPERATING BIOGAS FACILITIES ............................................................................................. 284
TABLE 69 U.S. WASTE MANAGEMENT EQUIPMENT INDUSTRY: 2018 ........................................................................ 300
TABLE 70 U.S. WASTE MANAGEMENT EQUIPMENT INDUSTRY: 2008-2018 .............................................................. 301
TABLE 71 WASTE MANAGEMENT EQUIPMENT INDUSTRY BY MARKET SEGMENT .......................................................... 302

Waste Market Overview & Outlook 2019
TABLE 72 WASTE MANAGEMENT EQUIPMENT INDUSTRY BY EQUIPMENT CATEGORY ................................................................. 302
TABLE 73 PROJECTED GROWTH OF THE WASTE EQUIPMENT INDUSTRY ........................................................................... 304
TABLE 74 COMPANIES THAT MANUFACTURE WASTE CONTAINERS .................................................................................. 324
TABLE 75 COMPANIES THAT MANUFACTURE LINERS ............................................................................................................ 328
TABLE 76 MANUFACTURERS OF MOBILE COLLECTION & TRANSPORTATION SYSTEMS .................................................. 329
TABLE 77 WASTE EQUIPMENT COMPANIES ............................................................................................................................... 330
1 About Waste Business Journal

Waste Business Journal publishes newsletters, directories and reports, and performs customized research for the waste management industry. WBJ has served this industry for over seventeen years, during which time, the company has accumulated through direct survey and other means a great deal of historical and current industry economic data. Using its proprietary database of waste disposal facilities and companies, WBJ staff regularly analyze waste disposal trends including volumes, prices, and capacity and publishes these findings in a number of its regular reports (available in print and on-line). Waste Business Journal and its president, James Thompson are recognized nationally as leading authorities of the waste industry. The company consults to a variety of clients on issues of strategic, economic, regulatory, and policy issues related to waste management. The Company is located in San Diego CA and considers itself an industry consultant and member of the professional information publishing business.

1.1 About James Thompson, Jr.

James Thompson is President of Waste Business Journal, a research and consulting firm dedicated to the waste management industry. With over fifteen years of experience in the industry, he is a leading expert on waste issues, pricing and business trends in the US. In 1991, he founded Chartwell Information and created Solid Waste Digest, the industry's first and only true quantitative business newsletter. That required his development of the industry's most comprehensive database of pricing, volume and supply statistics.

Mr. Thompson regularly consults with clients on issues of strategic, economic, regulatory, and policy issues related to waste management. His clients include corporations, governments, and agencies of the federal government. He has consulted to every major solid waste firm in the U.S. Consequently, his views have been presented in the Wall Street Journal, the New York Times, the Economist and National Public Radio among many other media.

James Thompson is a graduate of Yale University and holds an MBA from Vanderbilt University.