

Table of Contents

- Chapter 1: Why Look at Germany? 1**
 - What is Municipal Solid Waste? 2
 - Municipal Solid Waste Problems in Germany and the United States 3
 - Solid Waste Policy Options 5
 - Learning from the German Approach 5
 - Impact of the Packaging Ordinance 8
 - An International Laboratory 9

- Chapter 2: Putting Germany in Perspective 11**
 - Higher Population Density 11
 - Proximity to Other Nations 11
 - Concern Over Damaged Forests 12
 - Comparable Economic Strength 13
 - Strong Environmental Commitment 13
 - Waste Generation: Difficult to Make International Comparisons 14
 - Similar Solid Waste Management Structures 15
 - Green Party Promotes Environmental Agenda 16

- Chapter 3: German Ordinance on the Avoidance
of Packaging Waste 18**
 - Making the “Polluter Pay” 18
 - Background on the Passage of the Ordinance 19
 - Provisions of the Ordinance 21
 - Packaging Statistics 25
 - Role of Consumers 30
 - The Ordinance and the European Community (EC) 31

- Chapter 4: Transport Packaging 33**
 - Case Studies: Reusable Transport Containers 35

- Chapter 5: Secondary Packaging 42**
 - Secondary Packaging is Reduced 43
 - Just a Few Problems 46

Chapter 6: Primary Packaging and the Dual System	48
The Primary Packaging Waste Stream	49
Establishing the Dual System	49
Recycling and the Dual System	51
Financing the Dual System	58
Harmonization of DSD and the Waste Management System	68
Packaging Changes in Germany: The Impact of the Ordinance	70
Case Study: Tengelmann Supermarkets	75
Chapter 7: Maintaining the Refillable Beverage	
Container System	82
Refilling and the Packaging Ordinance	82
Refillable Plastic PET Containers	93
Case Study: Development of a Refillable PET Bottle for Juices	94
Chapter 8: Plastics and the Packaging Ordinance	99
The Plastics Industry Resists	99
A Plastics Glut	101
The Role of Chemical Recycling	103
Who Will Invest in Plastics Recycling?	105
Environmental Concerns about Polyvinyl Chloride	107
Exporting Used Plastic Packaging	109
System's Success Hinges on Plastics Recycling	109
Chapter 9: Criticisms of the Packaging Ordinance	
and the Dual System	113
Criticism in Germany	113
International Concerns	121
The "Polluter Pays" Principle Outside Germany	126
Chapter 10: Proposed Waste Avoidance and Recycling	
Legislation for Products	131
The Closed-Loop Economy and Waste Management Act	131
Proposed Ordinance on the Reduction and Recycling of	
Waste from Automobiles	135
Proposed Ordinance on the Reduction and Recycling of Used	
Electric and Electronic Equipment	141
A Revolution in Thinking	147

Chapter 11: Local Waste Management Initiatives	152
Local Source Reduction Strategies	152
Case Studies: Heidelberg and Wuppertal	156
Chapter 12: The German Packaging Ordinance and the European Community.....	161
Waste Policy in the European Community	162
EC Directive on Packaging Waste	165
Chapter 13: Implications of the German Approach for US Waste Policy	172
Some Lessons from Germany	172
Eleven Questions For US Solid Waste Policymakers	175
Conclusions	192
Epilogue	197
DSD Faces Another Financial Crisis	197
Amending the Packaging Ordinance	200
EC Packaging Directive	202
Appendices	207
Appendix A: The Ordinance on the Avoidance of Packaging Waste	207
Appendix B: Conversion of 1992 and 1993 Green Dot Fees to Dollars ..	227
Appendix C: Interviews	228
Appendix D: Bibliography	230
Index	244