

# CONTENTS

*Preface to the Second Edition* ix

*Acknowledgments* xiii

## PART I. DEVELOPING A FRAMEWORK

### 1. UNDERSTANDING ENVIRONMENTAL POLICY 3

Differing Perspectives on Environmental Policy 3

Developing a Framework to Help Understand Environmental Issues 4

Applying the Framework to a Set of Environmental Issues 5

Toward an Interdisciplinary Understanding  
of Environmental and Sustainability Policy 10

### 2. A FRAMEWORK FOR UNDERSTANDING THE ENVIRONMENTAL POLICY ISSUE 11

Values 14

Environmental Politics 18

Science, Technology, and the Environment 32

Environmental Policy Design and Economic Factors as an  
Influence on Damaging Corporate and Private Behaviors 36

Environmental and Sustainability Management 48

Next Steps 53

## CONTENTS

### PART II. APPLYING THE FRAMEWORK

#### 3. WHY CAN'T NYC GET A CONGESTION CHARGE? 57

The Nature of the Problem: Traffic Gridlock  
and Congestion Pricing in New York City 57

Congestion Pricing as an Issue of Values 75

Congestion Pricing as a Political Issue 76

Congestion Pricing as an Issue of Science and Technology 78

Congestion Pricing as a Public Policy Design Issue 78

Congestion Pricing as a Management Issue 80

Summary of the Multiple Dimensions of Congestion Pricing 80

Conclusions 81

#### 4. WHO IS RESPONSIBLE FOR E-WASTE AND HOW CAN WE ENSURE ITS SAFE DISPOSAL? 82

The Nature of the Problem: The Case of Electronic Waste 82

E-Waste Disposal as an Issue of Values 90

E-Waste Disposal as a Political Issue 94

E-Waste Disposal as an Issue of Science and Technology 98

E-Waste Disposal as a Public Policy Design Issue 100

E-Waste Disposal as a Management Issue 102

Summary of the Multiple Dimensions of  
Electronic Waste 103

Conclusions 105

#### 5. WHY IS HYDROFRACKING CONTENTIOUS? 106

The Nature of the Problem: Hydraulic Fracturing 106

Hydrofracking as an Issue of Values 118

Hydrofracking as a Political Issue 120

Hydrofracking as a Public Policy Design Issue 123

Hydrofracking as a Management Issue 125

Hydrofracking as an Issue of Science and Technology 125

Summary of the Multiple Dimensions of Hydrofracking 126

Conclusions 127

## CONTENTS

### 6. HOW CAN WE ASSESS THE RISKS OF, PREPARE FOR, AND SLOW CLIMATE CHANGE? 128

The Nature of the Problem of Global Climate Change 128

Global Climate Change as an Issue of Values 138

Global Climate Change as a Political Issue 140

Global Climate Change as an Issue of Science and Technology 145

Global Climate Change as an Issue of Policy Design 148

Global Climate Change as a Management Issue 150

Global Climate Change: A Summary of Its Multiple Dimensions 151

Conclusions 153

### PART III. UNDERSTANDING, DEVELOPING, AND IMPLEMENTING ENVIRONMENTAL POLICY

### 7. WHAT HAS THE FRAMEWORK TAUGHT US ABOUT THESE ENVIRONMENTAL SUSTAINABILITY PROBLEMS AND WHAT ELSE DO WE NEED TO KNOW? 159

A Summary of the Framework 159

Applying the Framework: What Did It Tell Us? 160

Values and Environmental Policy 163

Politics and Environmental Policy 166

Science, Technology, and Environmental Policy 168

The Design of Environmental Policy and the Impact  
of Economics on Environmental Policy 169

Implementing Environmental Sustainability Policy 170

Limitations to the Framework and Possible Modifications 172

### 8. CONCLUSIONS: IMPROVING ENVIRONMENTAL POLICY 174

Accomplishments of Environmental Governance 175

Improvements Needed 181

Next Steps 189

References 193

Notes 205

Index 207