



Contents

Acknowledgments	ix	Chapter 5 - Home Improvement: ...	25
Congratulations!	1	Green Home Design	
Chapter 1 - Carbon Busting	3	The Law of Diminishing	25
for Fun and Profit		Returns	
Chapter 2 - Conventions and	7	Tunneling Through	26
Assumptions		the Cost Barrier	
Assumptions and Methodology .	8	Whole System Design	26
Correcting for Savings	8	Chapter 6 - Green Transportation ..	31
Interactions		Efficiency Comparisons	31
Conventions	9	Bicycling	31
Sources of Information	10	Public Transit	32
Interpreting Savings Figures	11	Cars	32
Chapter 3 - For Busy People:	15	Chapter 7 - Electric Power	53
Top Recommendations at a		Your Home's Power Bill	53
Glance		Lighting	55
From Carbon Miser to	15	Power Vampires	67
Carbon Buster		Refrigerators	70
Chapter 4 - Your Family's	19	Freezers	76
Carbon Pie		Dishwashers	78
Interpreting Home	19	Cooking	79
Consumption Graphs		Solar Ovens	82
Electricity: The Most	20	Clothes Washers	82
Expensive Form of Energy		Dryers	84
What's the Carbon Balance?	21	Computers and Home	84
How to Benefit from	22	Office Equipment	
Fuel Switching		Entertainment Electronics	94
Your Home's Carbon Pie	22	Green Power	95
How Much Does It Cost?	23	Renewable Energy Sources:	96
		Making your Own	
		Green Power	

Chapter 8 - Green Heating	107	Appendix A:	133
Solar Design	107	Top Carbon Buster Measures	
Weatherproofing	107	Appendix B:	135
Insulation	108	Highest Carbon Return on	
Windows	109	Investment (CROI) in	
Energy-Efficient Landscaping..	111	lbs. Saved per \$ Spent	
Your Furnace	111	Appendix C:	136
Fireplaces	112	Best Investments	
Wood Stoves	113	Appendix D:	138
Geothermal.....	113	Highest Dollar Savings	
Domestic Hot Water	115	Appendix E:	140
Chapter 9 - Cooling	117	Complete Savings Results	
Green Coolth — Passive	117	Appendix F:	144
Solar Design		Typical Household Energy	
Cheap Cooling Strategies	117	Consumption	
Technological Solutions	118	Appendix G:	145
Chapter 10 - Liquid Assets	121	Average Energy Prices	
Where Does All the Water Go?..	121	Appendix H:	145
Toilets.....	121	CO ₂ Emission Factors	
Showers	122	Appendix I:	146
Baths	122	CO ₂ Emissions from Electricity	
Yard Water Usage	122	Production	
Chapter 11 - Environmental	123	Appendix J:	147
Goods and Services		Energy Conversion Factors	
Sustainable Wood	123	Appendix K:	147
Food	123	Metric Conversions	
Recycled Products/Recycled ...	124	Appendix L:	148
Paper		How to Correct for Local Energy	
Organic Flowers.....	124	Prices	
Protecting Nature at Home	125	Appendix M:	148
Green Mortgages.....	125	For More Information	
Chapter 12 - Putting It	127	Glossary	150
All Together		Endnotes and References	153
Financial Cost and Gain.....	127	Index	161
Rising Energy Prices, Falling ..	128	About the Author	171
Efficiency Costs			
Environmental Gains	129		
The Kyoto Protocol	130		
Share Your Success Stories!	131		