

Contents

1	Tourism, Environmental Impacts and Their Assessment:	
	An Introduction	1
2	The Life Cycle Thinking Approach and the Method of Life Cycle	
	Assessment (LCA)	9
2.1	Evolution of Life Cycle Thinking and the LCA Method.	9
2.2	LCA as a Tool for Accurate and Holistic Assessment	
	of Environmental Impacts.	12
2.3	The LCA Assessment Framework	14
2.4	Types and Categories of LCA.	23
	2.4.1 Simplified LCA	26
2.5	LCA Application in Tourism	29
2.6	Limitations of LCA	33
2.7	Conclusions	41
2.8	Further Reading	41
3	Are There Alternatives to the Method of LCA in Tourism	
	Environmental Impact Appraisal?	43
3.1	International Standards for Carbon Accounting and Reporting. . .	43
	3.1.1 The Greenhouse Gas Protocol Initiative (The GHG	
	Protocol)	49
	3.1.2 International Organisation for Standardisation (ISO)	52
	3.1.3 Intergovernmental Panel on Climate Change (IPCC)	54
	3.1.4 Department for Environment, Food and Rural Affairs	
	(DEFRA).	56
	3.1.5 Publicly Available Specification (PAS) 2050:2011	59
	3.1.6 Country-Specific (National)/Public Approaches.	60
3.2	The Capability of the International Standards for Carbon	
	Accounting and Reporting to Assess the Carbon Impacts	
	from Tourism Products and Services	61
3.3	Conclusions	63
3.4	Further Reading	64

4	Implications of LCA for Tourism Management, Policy-Making and Research	65
4.1	Transportation.	66
4.2	Accommodation	74
4.3	Activities	81
4.4	Composite Tourism Products (Holiday Package Tours)	88
4.5	Tour Operators and Travel Agents.	94
4.6	Conclusions	97
4.7	Further Reading	98
5	Future Outlook on the Application of LCA in Tourism	101
5.1	Life Cycle Management (LCM) as a New Managerial Paradigm in Tourism	103
5.2	Enhancing Environmental Consumer Awareness in Tourism via Eco-/Carbon Labels	105
5.3	LCA in Tourism and the Role of Academia	106
5.4	LCA in Tourism and the Role of Political Reinforcement.	108
	Glossary	111
	References	119