

# Contents

<b>1 Tourism, Environmental Impacts and Their Assessment: An Introduction</b>	<b>1</b>
<b>2 The Life Cycle Thinking Approach and the Method of Life Cycle Assessment (LCA)</b>	<b>9</b>
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
<b>3 Are There Alternatives to the Method of LCA in Tourism Environmental Impact Appraisal?</b>	<b>43</b>
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

<b>4 Implications of LCA for Tourism Management, Policy-Making and Research . . . . .</b>	<b>65</b>
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
<b>5 Future Outlook on the Application of LCA in Tourism . . . . .</b>	<b>101</b>
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
<b>Glossary . . . . .</b>	<b>111</b>
<b>References . . . . .</b>	<b>119</b>

Life Cycle Assessment (LCA) and Life Cycle Analysis in  
Tourism

A Critical Review of Applications and Implications

Filimonau, V.

2016, XII, 136 p. 23 illus., 14 illus. in color., Hardcover

ISBN: 978-3-319-26222-2