

## REFERENCES:

1. AIChE CWRT. 1999. *Total Cost Assessment Methodology: Internal Managerial Decision Making Tool*. Retrieved May, 14, 2002 from the World Wide Web: <http://www.aiche.org/cwrt/projects/cost.htm>.
2. Allenby, B.R. 2000. Implementing industrial ecology: The AT&T matrix system. *Interfaces*, 30(3):42-54.
3. Armour, A. 1991. Impact Assessment and the Planning Process: A Status Report. *Impact Assessment Bulletin*, 9(4): 27-33.
4. Asiedu, Y. & Gu, P. 1998. Product Life Cycle Cost Analysis: State of the art review. *International Journal of Production Research*. 36(4): 883-908.
5. Azapagic, A. & Perdan, S. 2000. Indicators of Sustainable Development for Industry: A General Framework. *Institution of Chemical Engineers, Trans ICHEME* 78(B): 243-261.
6. Barrow, C.J. 1997. *Environmental and Social Impact Assessment: An Introduction* London: Edward Arnold.
7. Beaver, E. 2000. LCA and Total Cost Assessment. *Environmental Progress*. 19(2): 130-139.
8. Blanchard, B.S. & Fabrycky, W.J. 1998. *Systems Engineering and Analysis*. Third Edition. New Jersey: Prentice Hall.
9. Blignaut, J.N. 1995. *Environmental Accounting in South Africa*. Doctoral Thesis. Pretoria: University of Pretoria.
10. Bonnal, P., Gourc, D. & Lacoste G. 2002. The life cycle of technical projects. *Project Management Journal*. 33(1): 12-19.
11. Brent, A.C.; Rohwer, M.B.; Friedrich, E.; von Blottnitz, H. 2002. Overview: LCA in South Africa: Status of Life Cycle Assessment and Engineering Research in South Africa. *International Journal of Life Cycle Assessment* 7(3): 167-172.
12. Brent, A.C. 2002. *Life Cycle Impact Analysis Procedure for Life Cycle Engineering projects in the South African manufacturing industry*. PhD Thesis. Pretoria: University of Pretoria.
13. Briassoulis, Helen. 2001. Sustainable Development and its Indicators: Through a (Planner's) Glass Darkly. *Journal of Environmental Planning and Management* 44(3): 409-427.
14. Buttrick, R. 2000. *The project workout: a toolkit for reaping the rewards from all your business projects*. London: Prentice Hall.
15. Caldwell, L.K. 1989. A Constitutional Law for the Environment: 20 Years with NEPA indicates the need. *Environment* 31(10): 6-11, 25-28.
16. Cambridge University: Centre of Atmospheric Studies. 2002. "The Ozone Hole Tour", Retrieved on July, 31, 2002 from the World Wide Web: <http://www.atm.ch.cam.ac.uk/tour/index.html>.
17. Canter, L.W. & Kamath, J. 1995. Questionnaire Checklist for Cumulative Impacts. *Environmental Impact Assessment Review*. 15: 311-339.

## References

---

18. Cardenas, M.L. 2002. *Environmental Risk Assessment*. Retrieved April, 4, 2002 from the World Wide Web: [www.unep.or.jp/ietc/Publications/TechPublications/TechPub-14/](http://www.unep.or.jp/ietc/Publications/TechPublications/TechPub-14/).
19. Cock, J. & Koch, E. 1991. *Going Green: People, Politics and the environment in South Africa* Cape Town: Oxford University Press.
20. Dahlen, P. & Bolsmjo, G.S.1996. Life-cycle cost analysis of the labor factor. *International Journal of Production Economics*. 46-47: 459-467.
21. Dalal-Clayton, B. & Sadler, B. 1998. *Strategic Environmental Assessment: A Rapidly Evolving Approach*. London: International Institute for Environment and Development Reports. Retrieved June 16, 2002 from the World Wide Web: [www.nssd.net](http://www.nssd.net).
22. Delicaet, A. 1995. The new Canadian Environmental Assessment Act: A Comparison with the Environmental Assessment Review Process. *Environmental Impact Assessment Review*, 15: 497-505.
23. Department of Environmental Affairs & Tourism.1998. *Guideline Document: EIA Regulations: Implementation of Sections 21,22 and 26 of the Environment Conservation Act*. Pretoria: Department of Environmental Affairs & Tourism.
24. Department of Environmental Affairs & Tourism. 2002. *Environmental Indicators for National State of the Environment Reporting: South Africa 2002*. Pretoria: Department of Environmental Affairs & Tourism.
25. Ditz, D., Ranganathan, J., Banks, R.D. 1995 *Green Ledgers: Case Studies in Corporate Environmental Accounting*. World Resource Institute.
26. Dixon, J.A., Scura, L.F., Carpenter, R.A. & Sherman, P.B. 1994. *Economic Analysis of Environmental Impacts*. London: Earthscan.
27. Durairaj, S.K., Ong, S.K., Nee, A.Y.C. & Tan, R.B.H. 2002. Evaluation of Life Cycle Cost Analysis Methodologies. *Corporate Environmental Strategy*. 9(1): 30-39.
28. Eduljee, G.H., 2000. Trends in risk assessment and risk management. *The Science of the Total Environment*. 249: 13-23.
29. Environmental Protection Agency. 1995. *An introduction into Environmental Accounting as a Business Management Tool: Key Concepts and Terms* EPA 742-R-95-001. Washington: Office of Pollution Prevention and Toxics.
30. Eversheim, W., Hachmöller, K & Rosier, C. 2002. *Technology and Innovation Management*. Proceedings of the 17<sup>th</sup> Annual Conference of the Southern African Institute for Industrial Engineering: 2-8.
31. Fava, J.A. 1994. Life Cycle Assessment: A new way of thinking. *Environmental Toxicology and chemistry*. 13(6): 853 – 854.
32. Ferrero, E.M. & Holland J. 2002. *The Earth Charter: A Study Book of reflection for action*. Retrieved July 15, 2002 from the World Wide Web: <http://www.ecreflection4action.org/>.
33. Finizio, A. & Villa, S, 2002. Environmental Risk Assessment for pesticides: A tool for decision-making. *Environmental Impact Assessment Review*. 22(3): 235-248.
34. Frankl, P., Rubik, F & Bartolomeo, M. 2000. *Life Cycle Assessment in industry and business: adoption, patterns, applications and implications*. New York: Springer.

35. GaBi-Software. 2002. *GaBi Methodology* Retrieved September 25, 2002 from the World Wide Web: [http://www.gabi-software.com/englisch/gabibild\\_englisch.shtml](http://www.gabi-software.com/englisch/gabibild_englisch.shtml).
36. Gardner, J.E. 1989. Decision Making for Sustainable Development: Selected Approaches to Environmental Assessment and Management. *Environmental Impact Assessment Review* 9(4): 337-366.
37. Garrod, G. & Willis, K.G. 1999. *Economic Valuation of the Environment: Methods & Case Studies*. Cheltenham: Edward Elgar.
38. Glavovic, P.D. 1984. The need for legislative adoption of a conservation ethic. *The comparative and international law journal of Southern Africa*. 17:144-152.
39. Global Reporting Initiative. 2002. *Sustainability Reporting Guidelines*. Boston: Global Reporting Initiative.
40. Gloria, T. & Norris, G. 2002. *Bridging the Gap- Sustainable Business Decision Making Using Total Cost Assessment*. Presentation delivered at the internet-based International Life Cycle Assessment-Life Cycle Management Conference 2002. Retrieved May 14, 2002 from the World Wide Web: <http://www.lcacenter.org/lca-lcm/index.html>.
41. Government Gazette. 8 August 2002. *National Water Act (36/1998)*. Pretoria: Staatsdrukker.
42. Grace, N.O., Grace, D.M., Perez, A.L. & Maywah, N.A. 1999 ISO 14001: A Road Map to Continuous Utility System Improvement. *Florida Water Resources Journal*. October: 24 –26, 28.
43. Graedel, T.E. & Allenby, B.R. 1995. *Industrial Ecology*. New Jersey: Prentice Hall.
44. Graedel, T.E., Allenby, B.R. & Comrie, P.R. 1995. Matrix Approaches to Abridged Life Cycle Assessment. *Environmental Science and Technology* 29(3): 134A – 139A.
45. Graedel, T.E. 1998. *Streamlined Life Cycle Assessment*. New Jersey: Prentice Hall.
46. Guinée, J. B.(Editor). 2001. *Life Cycle Assessment: An operational guide to the ISO standards*. Retrieved April, 24 2002 from the World Wide Web: <http://www.leidenuniv.nl/cml/ssp/projects/lca2/lca2.html>.
47. Hendrickson, C., Horvath, A., Joshi, S. and Lave, L. 1998. Economic Input-Output Models for Environmental Life Cycle Assessment. *Environmental Science & Technology* April: 184-191.
48. Heuberger, R. & Brent, A.C. 2002. *Sustainability Assessment of CDM projects: Decision analysis methods to assist with LCIA weighting*. Presentation delivered at WSSD: Science at the Summit: South African Life Cycle Assessment activities in the global marketplace.
49. Holiday, C.O., Schmidheiny, S. & Watts, P. 2002. *Walking the Talk: The Business Case for Sustainable Development*. London: Greenleaf Publishing.
50. Holub, H.W., Tappeiner, G. & Tappeiner, U. 1999. Some remarks on the 'System of Integrated Environmental and Economic Accounting' of the United Nations. *Ecological Economics* 29(3): 329-336.
51. ICON. 2001. *SEA and Integration of the Environment into Strategic Decision-Making*. European Commission Contract No: B4-3040/99/136634/MAR/B4.

52. International Institute for Sustainable Development, Deloitte & Touche and the World Business Council for Sustainable Development, 1992. *Business Strategies for Sustainable Development: Leadership and Accountability for the 90s* Retrieved July 16, 2002 from the World Wide Web: <http://www.iisd.org/publications/publication.asp?pno=242>.
53. ISO. 2002. *ISO 14000: Meet the whole family!* Retrieved April, 2002 from the World Wide Web: <http://www.iso.org/iso/en/prods-services/otherpubs/iso14000/index.html>.
54. Jafaari, A. 2000. Life-cycle project management: A proposed theoretical model for development and implementation of capital projects. *Project Management Journal*. 31(1): 44-52.
55. James, D. 1994. *The Application of Economic Techniques in Environmental Impact Assessment*. Dordrecht: Kluwer Academic Publishers.
56. Jansen, R. 1992. *Multiobjective decision support for environmental management*. Dordrecht: Kluwer Academic Publishers.
57. Julien, B., Fenves, S.J., & Small, M.J. 1992. An Environmental Impact Identification System. *Journal of Environmental Management*. 36: 167-184.
58. Keeney, R.L. 1992. *Value-focused thinking: a path to creative decision-making*. Cambridge: Harvard University Press.
59. Kerzner, H. 2001. *Project Management: A Systems Approach to Planning, Scheduling and Controlling*. 7<sup>th</sup> Edition. New York: John Wiley & Sons, Inc.
60. Knowledge Based Systems, Inc. (KBSI). 2002. "IDEFØ Overview" Retrieved September 11, 2002 from the World Wide Web: [www.idef.com/idef0.html](http://www.idef.com/idef0.html).
61. Kumaran, D.S., Ong, S.K., Tan, R.B.H. & Nee, A.Y.C. 2001. Environmental life cycle cost analysis of products. *Environmental Management and Health*. 12(3): 260-276.
62. Labuschagne, C. 2002. Personal communication with environmental specialists in the South African process industry on 27/2/2002, 7/3/2002, 8/3/2002, 10/4/2002, 12/7/2002, 2/8/2002, 13/8/2002, 14/8/2002, 15/8/2002.
63. Lichfield, N. 1988. Environmental Impact Assessment in project appraisal in Britain. *Project Appraisal* 3(3): 133-142.
64. Lopes, M.D.S. & Flavell, R. 1998. Project Appraisal – a framework to access non-financial aspects of projects during the project life cycle. *International Journal of Project Management*. 16(4): 223-233.
65. Meredith, J.R. & Mantel, S.J. 1995. *Project Management: A Managerial Approach*. Third Edition. New York: John Wiley & Sons, Inc.
66. Moss, N. 2000. *Managing the Planet: The Politics of the New Millenium*. London: Earthscan.
67. Nisbet, R. 1982. *Prejudices: A Philosophical Dictionary* Cambridge, Mass.: Harvard University Press.
68. Norris, G.A. 2001. Integrating Life Cycle Cost Analysis and LCA. *International Journal of Life Cycle Assessment*. 6(2): 118-120.
69. Ortolano, L & Shepherd, A. 1995. Environmental Impact Assessment: Challenges and Opportunities. *Impact Assessment* 13(1): 3-30.

## References

70. Ofori, SC. 1991. Environmental Impact Assessment in Ghana: current administration and procedures – towards an appropriate methodology. *The Environmentalist* 11(1): 45-54.
71. Partidário, M.R. 2000. Elements of an SEA Framework – improving the added-value of SEA. *Environmental Impact Assessment Review*. 20: 647-663.
72. Petrie, J., Basson, L., Stewart, M., Notten, P. & Alexander, B. 2001. *Decision Making for Design of Cleaner Processes: A Life Cycle Management Perspective*. Proceedings of the First International Conference on Life Cycle Management: Bridging the Gap between Science and Application.
73. PMBOK® Guide. 2000. *A Guide to the Project Management Body of Knowledge*. Pennsylvania: Project Management Institute.
74. Pöyhönen, M. & Hämmäläinen, R.P. 2001. On the convergence of multi attribute weighting methods. *European Journal of Operational Research*. 129(3): 569-585.
75. Prasad, K. 1993. Environmental Impact Assessment: An Analysis of the Canadian Experience. *International Studies*, 30(3): 299-318.
76. Pretorius, M.W. 2002. *MOT as a link between engineering and business management*. Presentation as part of Technology Management course. University of Pretoria.
77. Rao, P. 2002. Greening the supply chain: a new initiative in South East Asia. *International Journal of Operations and Production Management*. 22(6): 632-655.
78. Rees, W.E. 1988. A Role for Environmental Assessment in Achieving Sustainable Development. *Environmental Impact Assessment Review*, 8(4): 273-291.
79. Sampson, I. 2001. *Introduction to a legal framework to pollution management in South Africa*. South Africa, Water Research Commission, no. TT 149/01: Deloitte & Touche and WRC report.
80. Segnestam, L. 1999. *Environmental Performance Indicators: A Second Edition Note*. World Bank Publication: Environmentally & Socially Sustainable Development.
81. Sharratt, P.N. & Choong, P.M. 2002. A life-cycle framework to analyse business risk in process industry projects. *Journal of Cleaner Production*. 10(5): 479-493.
82. Sim, K.L. & Koh, H.C. 2001. Balanced Scorecard: A rising trend in strategic performance measurement. *Measuring Business Excellence* 5(2): 18-26.
83. Sonnemann, G.W., Solgaard, A., Saur, K., Udo de Haes, H.A., Christiansen, K. & Jensen, A.A. 2001. Life Cycle Management: UNEP Workshop: Sharing Experiences on LCM. *International Journal of Life Cycle Assessment*. 6(6): 325 - 333.
84. Sowman, M., Fuggle, R. & Preston, G. 1995. A Review of the Evolution of Environmental Evaluation Procedures in South Africa. *Environmental Impact Assessment Review* 15: 45-67.
85. Stewart, W.E. 2001. Balanced Scorecards for Projects. *Project Management Journal*. 32(1): 38-53.
86. Sunter, C. & Visser, W. 2002. *Beyond reasonable greed: Why sustainable business is a much better idea*. Cape Town: Human & Rousseau.

87. Tamura, Toru. 2002. *Environmental Management Systems (EMS)*. Retrieved April 4, 2002 from the World Wide Web: [www.unep.or.jp/ietc/Publications/TechPublications/TechPub-14/1-EMS1.asp](http://www.unep.or.jp/ietc/Publications/TechPublications/TechPub-14/1-EMS1.asp).
88. Tibor, T. 1996. *ISO 14000: A guide to the New Environmental Management Standards* Chicago: IRWIN Professional Publishing.
89. UNDP. 2002. *UNDP's Handbook and Guidelines for Environmental Management and Sustainable Development*. Retrieved May 15, 2002 from the World Wide Web: <http://www.undp.org/seed/guide/handbook/>.
90. Van den Berg, N.W., Dutilh, C.E. and Huppess, G. 1995. *Beginning LCA: A guide into Environmental Life Cycle Assessment* Leiden: Centrum voor Milieukunde.
91. Van Horen, C. 1996 *The Cost of Power: Externalities in South Africa's Energy Sector* Doctoral Thesis. Cape Town: University of Cape Town.
92. Van Wyk, R.J. 1988. Management of Technology: new frameworks. *Technovation* 7:341 – 351.
93. Visser, W. April 2002. *Rainbow nation's corporates go green*. Retrieved September 14, 2002 from the World Wide Web: <http://www.kpmg.co.za/modules/library/detail.cfm?libid=129&month=4&year=2002>.
94. Veleva, V., Hart, M., Greiner, T. and Crumbley, C. 2001. Indicators of Sustainable Production. *Journal of Cleaner Production* 9: 447-452.
95. Wildlife and Environment Society of South Africa. 2002. *Coega Port and Industrial Development Zone Project*. Retrieved September 14, 2002 from the World Wide Web: <http://www.wildlifesociety.org.za/con-ec.htm>
96. Winpenny, J.T. 1991. *Values for the Environment: A guide to Economic Appraisal*. London: HMSO
97. Winstanley, T. 1995. Entrenching Environmental Protection in the New Constitution. *The South African Journal of Environmental Law and Policy*. 2(1): 85-97
98. Woodward, D.G. 1997. Life Cycle Costing – theory, information acquisition and application. *International Journal of Project Management* 15(6): 335-344
99. The World Bank: Environment Department. 1998. *Environmental Assessment Sourcebook Update: Economic Analysis & Environmental Assessment*. Retrieved September 29, 2002 from the World Wide Web: <http://www.worldbank.org>
100. The World Bank Group. 1998. *Defining sustainable development*. Retrieved April 4, 2002 from the World Wide Web: <http://www.worldbank.org/depweb/english/whatis.htm>
101. The World Bank. 2002. *Indicator Framework*. Retrieved September 29, 2002 from the World Wide Web: <http://www.worldbank.org>
102. Yarwood J.M & Eagan, P.D. 1998. *Design for Environment Toolkit: A Competitive Edge for the Future*. Minnesota: Minnesota Office of Environmental Assistance and Minnesota Technical Assistance Program. Retrieved June 30, 2002 from the World Wide Web: <http://www.moea.state.mn.us/berc/dfetoolkit.cfm>
103. Yeld, J. 1993. *CARING FOR THE EARTH: SOUTH AFRICA: A strategy for sustainable living*. Stellenbosch: Southern African Nature Foundation (SANF) and World Conservation Union (IUCN)

104. Zwecker, W. 2002. Beraad van klein mirakeltjies: Energie stel teleur; maar goeie nuus oor Kioto. *Beeld* 5 September 2002:2

**Webpages referred to in document:**

105. Australian EPA: Smog: <http://www.epa.vic.gov.au/Air/Issues/smogalerts.asp>
106. Greenpeace Website:  
Ozone Depletion - <http://archive.greenpeace.org/~ozone/state/>
107. Intergraph: <http://www.intergraph.com/ppo/lifecycle/>
108. South Africa: Department of Health:  
Malaria & DDT: <http://www.doh.gov.za/search/index.html>
109. UNEP Publications:  
<http://www.unep.or.jp/ietc/Publications/TechPublications>
110. US EPA  
Ozone: <http://www.epa.gov/ozone/>  
Global Warming: <http://www.epa.gov/globalwarming/>  
Product Stewardship:  
<http://www.epa.gov/epaoswer/non-hw/reduce/epr/about/index.html>
111. World Resource Institute  
Biodiversity: <http://www.wri.org/biodiv/>  
Soil Degradation: <http://www.igc.org/wri/trends/soilloss.html>
112. WWF:  
Climate Change: <http://www.panda.org/climate/>  
Biodiversity: <http://www.panda.org/species/>