

READING for the course Life Cycle Assessment

1. Life Cycle Assessment. Training Kit material. UNEP-SETAC Life cycle initiative: <http://www.lifecycleinitiative.org/resources/training/lca-life-cycle-assessment-training-kit-material/>
2. Prof O.Jolliet , T. Corbière, M. Thérézien, Life Cycle Assessment: Distance Education Course Ecole Harvard School of Public Health EPFL-Swiss Federal Institute of Technology-Lausanne, Ecosystem management, GECOS, CH-1015 Lausanne, SWITZERLAND available at: www.sciencenetwork.com/lca/goal_scope.pps
3. Lifecycle Assessment: Principles and Practice. US Environmental Protection Agency Report -EPA/600/R-06/060 May 2006 Available for download at <http://www.epa.gov/nrmrl/std/lca/lca.html>
4. European Platform on Life Cycle Assessment. ILCD Handbook. General guide for Life cycle assessment. Provisions and action steps. EU DG JRC IES, 2010, http://eplca.jrc.ec.europa.eu/?page_id=86
5. 1. Guinée, et al. (2002), Handbook on life cycle assessment. Operational guide to the ISO standards. I: LCA in perspective. IIa: Guide. IIb: Operational annex. III: Scientific background. Kluwer Academic Publishers, ISBN 1-4020-0228-9, Dordrecht, 2002, 692 pp. <http://cml.leiden.edu/research/industrialecology/researchprojects/finished/new-dutch-lca-guide.html> Or <http://www.isa.utl.pt/der/ASAmb/DocumentosAulas/Recipe/Handbook%20on%20Life%20Cycle%20Assessment.pdf>
6. Baumann H and Tillman A-M, **The Hitch Hiker's Guide to LCA: An Orientation in Life Cycle Assessment Methodology and Application**, Studentlitteratur, 2004. (**strongly recommended**)
7. Rebitzer et al. (2004) Life cycle assessment. Part 1: Framework, goal and scope definition, inventory analysis, and applications. Environment International 30 (2004) 701 – 720. AGH library electronic scientific journals.
8. Pennington et al. (2004) Life cycle assessment Part 2: Current impact assessment practice, section 7. Environment International 30 (2004) 721– 739 AGH library electronic scientific journals.

Reading on SimaPro software

9. Introduction to LCA with SimaPro PRé Mark Goedkoop, Michiel Oele, Jorrit Leijting, Tommie Ponsioen, Ellen Meijer. November 2013 available at <http://www.pre-sustainability.com/introduction-to-lca>
10. SimaPro Tutorial PRé Mark Goedkoop, Michiel Oele, Marisa Vieira, Jorrit Leijting, Tommie Ponsioen, Ellen Meijer May 2014 Tutorial <http://www.pre-sustainability.com/download/SimaPro8Tutorial.pdf>
11. The Eco- indicator 99. A damage oriented method for Life Cycle Impact Assessment. Available at http://www.pre-sustainability.com/download/EI99_Manual.pdf

Textbooks on LCA

12. Hauschild M and Wenzel H, Environmental Assessment of Products. Vol. 2 Scientific Background, Chapman & Hall, 1998
13. Wenzel H, Hauschild M & Altig L, Environmental Assessment of Products Vol. 1 Methodology, tools and case studies in product development, Kluwer Academic Publications, 1997.
14. Life cycle assessment: A tool for the Analysis of product systems. Chapter 12 pp. 224-231 in Boersema & Reinders, *Principles of Environmental Sciences*
15. An illustration of the LCA technique. Chapter 17A pp. 375-383 in Boersema & Reinders, *Principles of Environmental Sciences*

ISO standards:

16. EN-ISO 14040-06. 2006. Environmental Management – Life Cycle Assessment – Principles and Framework.
17. EN-ISO 14044-06. 2006. Environmental Management – Life Cycle Assessment – Requirements and Guidelines.

Some major journals for papers on LCA

18. Journal of Industrial Ecology,
19. International Journal of Lifecycle Assessment,
20. Environmental Science and Technology,
21. Journal of Cleaner Production,
22. Journal of Environmental Management, Ecological Economics, Energy.

Textbooks in Polish:

23. Kowalski Z., Kulczyka J., Góralczyk M.: Ekologiczna ocena cyklu życia procesów wytwórczych (LCA). Wydawnictwo Naukowe PWN, Warszawa 2007.
24. Lewandowska A: Środowiskowa Ocena Cyklu życia produktu na przykładzie wybranych pomp przemysłowych. Wydawnictwo Akademii Ekonomicznej w Poznaniu. Poznań 2006
25. Kulczyka J. i in. Ekologiczna ocena cyklu życia (LCA) nową techniką zarządzania środowiskowego. Polska Akademia Nauk. Instytut Gospodarki Surowcami Mineralnymi i Energią. Wydaw. IGSMiE PAN, Kraków, 2001.
26. Górzyński J.: Podstawy analizy środowiskowej wyrobów i obiektów. Wydawnictwa Naukowo - Techniczne . Warszawa 2007