

DR SVEN LUNDIE

POSITION

Associate Professor

PEN PICTURE

Sven Lundie is an Associate Professor at the Water Research Centre in the School of Civil and Environmental Engineering at UNSW. Sven chaired the taskforce on Life Cycle Inventory – Methodological Consistency under the UNEP/SETAC Life Cycle Initiative (Lundie et al; 2007). Sven has established a global collaborative research and consulting network consisting of environmental experts in Australia and overseas. He is currently also providing strategic advice on sustainability and professional facilitation services as a Principal Consultant for PE International.

Sven has been instrumental in the development of important life cycle inventory and assessment projects in Australia and internationally. He was one of the leaders of the original life cycle inventory project that provided the first national basis for LCA work in Australia. He directed the recent project to calculate the carbon footprint of Fonterra's entire national operations for the production of its five main products. Sven has also examined products at the household scale including airconditioning and waste management alternatives.

EXPERIENCE SUMMARY

- Methodological development of and extensive consulting projects in ecological / carbon / water footprint, Life Cycle Analysis (LCA);
- LCA projects for water, waste, food, energy, refinery, retail and transport industries;
- Consulting projects in sustainability to the food, water and wastewater and waste management industry; and
- Leader in international research projects in the area of sustainability, environmental and economic systems analysis.

QUALIFICATIONS

1998 PhD: University of Lueneburg
Topic: "Environmental Life Cycle Assessment and Decision Making Theory"

2003 Australian Greenhouse Office, Certified Auditor

RESEARCH OUTPUT SAMPLE

Lundie S, Kröger T, Peters GM, Rowley HV, Feitz A. (2008) Integrated environmental-economic assessment of commercial air-conditioning systems in Australia using systems analysis. *Proceedings of 15th CIRP International Conference on Life Cycle Engineering*, Sydney, 17 - 19 March 2008. ISBN: 1 877040 68 1.

Lundie, S., Huppel, G., Ciroth, A. (2007) Inventory methods in LCA: towards improved methodological consistency. Report for UNEP-SETAC Life Cycle Initiative Life Cycle Inventory (LCI) Programme Task Force 3: Methodological Consistency. ISBN 3836486210

Lundie S, Peters GM. (2005) Life cycle assessment of food waste management options. *Journal of Cleaner Production*, 13:275-286.

Lundie S, Peters G, Beavis P (2004) Life cycle assessment for sustainable metropolitan water systems planning – options for ecological sustainability. In: *Environmental Science and Technology*, 38(13)3465 – 3473.

Lundie, S., Feitz, A., et al (2001) Evaluation of the Environmental Performance of the Australian Dairy Processing Industry using Life Cycle Assessment for Milk Powder, Market Milk, Cheese, Whey, Butter and Dessert/Yoghurt. Final report to Dairy Australia