

# University Reading List of TNEP Publications

## Enabling Rapid Sustainability Curricula Reform in the Tertiary Sector

### Introduction to Sustainable Development

Smith, M., Hargroves, K., Desha, C. and Palousis, N. (2007) *Engineering Sustainable Solutions Program: Critical Literacies Portfolio - Introduction to Sustainable Development for Engineering and Built Environment Professionals*, The Natural Edge Project, Australia. (TNEP)

[http://www.naturaledgeproject.net/TNEP\\_ESSP\\_CLP\\_Introduction\\_to\\_Sustainable\\_Development\\_for\\_Engineering\\_and\\_Built\\_Environment\\_Professionals.aspx](http://www.naturaledgeproject.net/TNEP_ESSP_CLP_Introduction_to_Sustainable_Development_for_Engineering_and_Built_Environment_Professionals.aspx)

Smith, M., Hargroves, K., Desha, C. and Palousis, N. (2007) *Engineering Sustainable Solutions Program: Critical Literacies Portfolio - Principles and Practices in Sustainable Development for the Engineering and Built Environment Professions*, The Natural Edge Project, Australia. (TNEP)

[http://www.naturaledgeproject.net/TNEP\\_ESSP\\_CLP\\_Principles\\_and\\_Practices\\_in\\_Sustainable\\_Development\\_for\\_the\\_Engineering\\_and\\_Built\\_Environment\\_Professions.aspx](http://www.naturaledgeproject.net/TNEP_ESSP_CLP_Principles_and_Practices_in_Sustainable_Development_for_the_Engineering_and_Built_Environment_Professions.aspx)

### Climate Change Mitigation and Adaptation (640 pages)

Smith, M., Hargroves, K., Stasinopoulos, P., Stephens, R., Desha, C. and Hargroves, S. (2007) *Energy Transformed: Sustainable Energy Solutions for Climate Change Mitigation*, The Natural Edge Project (TNEP), Australia.

[http://www.naturaledgeproject.net/Sustainable\\_Energy\\_Solutions\\_Portfolio.aspx](http://www.naturaledgeproject.net/Sustainable_Energy_Solutions_Portfolio.aspx)

### Design and Sustainable Development

Stasinopoulos, P., Smith, M., Hargroves, K. and Desha, C. (2007) *Design Transformed: Whole System Design Suite*, Engineering Sustainable Solutions Program, The Natural Edge Project, Australia. (TNEP) [http://www.naturaledgeproject.net/Whole\\_Systems\\_Design\\_Suite.aspx](http://www.naturaledgeproject.net/Whole_Systems_Design_Suite.aspx)

### Economics and Sustainable Development

Hargroves, K. and Smith, M.H. (eds and co-authors) (2005) *The Natural Advantage of Nations: Business Opportunities, Innovation and Governance in the 21st Century*, Earthscan/James and James Publishing, London – 200 pages freely online plus an online companion – with over 600 downloadable resources. ([www.thenaturaladvantage.info](http://www.thenaturaladvantage.info)) – Used by London School of Economics as a text.

Smith, M. Hargroves, K. (2008) *Cents and Sustainability: Making Sense of How to Grow Economies, Build Communities, and Revive the Environment in Our Lifetimes. A 20 year response from the next generation to Our Common Future*. Earthscan Publishing. The Natural Edge Project, Australia. (TNEP) (In Press) <http://www.naturaledgeproject.net/centsandsustainability.aspx>

### Business and Sustainable Development

Hargroves, K. and Smith, M.H. (eds and co-authors) (2005) *The Natural Advantage of Nations: Business Opportunities, Innovation and Governance in the 21st Century*, Earthscan/James and James Publishing, London – 200 pages freely online plus an online companion – with over 600 downloadable resources. See Online Chapter 1 –

<http://www.naturaledgeproject.net/NAONChapter1.1.aspx> See Online Chapter 6 -

<http://www.naturaledgeproject.net/NAON1Chapter6.1.aspx>

Smith, M. Hargroves, K. (2007) “*Executive Report: Action on Climate Change Can Help Business Competitiveness and Economic Growth*” National Business Leaders Forum for Sustainable Development. Freely Available from <http://www.nblf.com.au/framework.php> Endorsed by over 50 business leaders.

*Emissions Trading Schemes – Prospering in a Carbon Constrained World*. This report was developed by Natural Capitalism Solutions (NCS) and The Natural Edge Project for the business members of the Chicago Climate Exchange (CCX) and the European Climate Exchange (ECX). The report was researched and prepared by Karlson ‘Charlie’ Hargroves and Michael H. Smith of The Natural Edge Project, and supervised, reviewed and edited by Hunter Lovins and Christopher Juniper. (<http://www.naturaledgeproject.net/KeyAchievements.aspx>)

Smith, M. and Hargroves, K. (2006) ‘*Sustainable Development: How Does Australian business Reconcile Environmental Obligations with Competitive Advantage-Improving Competitiveness Through Effective Environmental Management.*’ Australian Industry Group’s 2006 Environmental Management Handbook (<http://www.naturaledgeproject.net/KeyAchievements.aspx>)

## **Industry Sectors and Sustainable Development**

Prosser, M. Smith, M. Hargroves, K. Toyne. P (2006) Australian Plantation, Products and Paper Industry Council’s (A3P) *Sustainability Action Plan - Performance, People and Prosperity*. A3P. <http://www.a3p.asn.au/keyissues/sustainability.html>

PACIA (2007) *Sustainable Leadership Framework*. Plastics and Chemicals Industry Association. <http://www.pacia.org.au/index.cfm?menuaction=mem&mimid=021&mid=021.026.001>

Toyne, P. Tate, A. Hargroves, K. Smith, M. (2003) *Sustainability Framework for the Future of Australia’s Infrastructure Handbook – Australian Council for Infrastructure and Development*. Available at (<http://www.naturaledgeproject.net/AusCIDhandbook03.pdf.pdf> )

Stasinopoulos, P. Hargroves, K. and Smith, M. (2007) ‘*Sustainable IT’ through ‘Sustainable Product Service Systems’, a case study of Hewlett Packard*, The Natural Edge Project (TNEP), Australia. [http://www.naturaledgeproject.net/Documents/WP\\_HP\\_SustainableIT1.pdf.pdf](http://www.naturaledgeproject.net/Documents/WP_HP_SustainableIT1.pdf.pdf)

## **Innovation and Sustainable Development**

Hargroves, K. and Smith, M.H. (eds and co-authors) (2005) *The Natural Advantage of Nations: Business Opportunities, Innovation and Governance in the 21st Century*, Earthscan/James and James Publishing, London. ([www.thenaturaladvantage.info](http://www.thenaturaladvantage.info) )

Hargroves, K. and Smith, M. (eds and co-authors) (2006) ‘*Waste Streams to Value Streams*’, in: Marinova, D., Annandale, D., and Phillimore, J. (eds) (2006) *The International Handbook on Environmental Technology Management*, Edward Elgar, Northampton, MA, USA.

Smith, M. Hargroves, K. Paten, C. Palousis, N. (2007) *Biomimetic Innovations* in: Khoo, V (ed) (2007) *Australian Innovation for a Sustainable Future*. CL Creations. Available at: ([http://www.sustained.com.au/index.php?option=com\\_content&task=view&id=100&Itemid=29](http://www.sustained.com.au/index.php?option=com_content&task=view&id=100&Itemid=29))

## **The Role of Technology in Sustainable Development**

Smith, M., Hargroves, K., Desha, C. and Palousis, N. (2007) *Engineering Sustainable Solutions Program: Critical Literacies Portfolio - Principles and Practices in Sustainable Development for the Engineering and Built Environment Professions*, The Natural Edge Project, Australia. (TNEP) – 4 Lectures online.

<http://www.naturaledgeproject.net/ESSPCLP-Principles and Practices in SD-Lecture1.aspx>

<http://www.naturaledgeproject.net/ESSPCLP-Principles and Practices in SD-Lecture2.aspx>

<http://www.naturaledgeproject.net/ESSPCLP-Principles and Practices in SD-Lecture3.aspx>

<http://www.naturaledgeproject.net/ESSPCLP-Principles and Practices in SD-Lecture4.aspx>

### **Technology Inspired by Nature – Introduction to Biomimicry.**

Smith, M., Hargroves, K., Desha, C. and Palousis, N. (2007) *Engineering Sustainable Solutions Program: Critical Literacies Portfolio - Principles and Practices in Sustainable Development for the Engineering and Built Environment Professions*, The Natural Edge Project, Australia. (TNEP) – 2 Lectures already online. A Further 12 lectures have been drafted and are soon to be online on Biomimicry.

[http://www.naturaledgeproject.net/ESSPCLP-Principles\\_and\\_Practices\\_in\\_SD-Lecture9.aspx](http://www.naturaledgeproject.net/ESSPCLP-Principles_and_Practices_in_SD-Lecture9.aspx)

[http://www.naturaledgeproject.net/ESSPCLP-Principles\\_and\\_Practices\\_in\\_SD-Lecture10.aspx](http://www.naturaledgeproject.net/ESSPCLP-Principles_and_Practices_in_SD-Lecture10.aspx)

### **Sustainable Chemistry – Introduction to Green Chemistry and Green Chemical Engineering.**

Smith, M., Hargroves, K., Desha, C. and Palousis, N. (2007) *Engineering Sustainable Solutions Program: Critical Literacies Portfolio - Principles and Practices in Sustainable Development for the Engineering and Built Environment Professions*, The Natural Edge Project, Australia. (TNEP) – 2 Lectures already online. A Further 12 lectures have been drafted and are soon to be online on Green Chemistry.

[http://www.naturaledgeproject.net/ESSPCLP-Principles\\_and\\_Practices\\_in\\_SD-Lecture11.aspx](http://www.naturaledgeproject.net/ESSPCLP-Principles_and_Practices_in_SD-Lecture11.aspx)

[http://www.naturaledgeproject.net/ESSPCLP-Principles\\_and\\_Practices\\_in\\_SD-Lecture12.aspx](http://www.naturaledgeproject.net/ESSPCLP-Principles_and_Practices_in_SD-Lecture12.aspx)

### **Scientific Communication and Sustainable Development**

Numerous articles published in CSIRO Ecos: Towards A Sustainable Future, Waste Management and Environment (WME), and Engineering World magazine.

([www.naturaledgeproject.net/TNEPArticles.aspx](http://www.naturaledgeproject.net/TNEPArticles.aspx))

### **History of Sustainable Development Debates and Discourses**

Smith, M. Hargroves, K (2007) *Review of Limits To Growth for the 35 Anniversary* (reviewed by Dennis Meadows) Available at <http://www.naturaledgeproject.net/TNEPBookReviews.aspx>

### **Greening of Universities**

Bekessy, S. Burgman, M. Wright, T. Leal Filho, W. Smith, M (2003) *Universities and Sustainability*. Tela Paper. Australian Conservation Foundation and Melbourne University.

([www.acfonline.org.au/uploads/res\\_tp010.pdf](http://www.acfonline.org.au/uploads/res_tp010.pdf))

Smith, M. Hargroves, K (2002) *Using Internal and External Drivers for Change to Achieve Permanent Change*. 2<sup>nd</sup> Australian Campuses Towards Sustainability Conference, RMIT.

([http://www.mei.monash.edu.au/conference/Papers/Creating\\_permanent\\_Change\\_N.pdf](http://www.mei.monash.edu.au/conference/Papers/Creating_permanent_Change_N.pdf))

Smith, M. Waldren, L (2001) *The Research School of Chemistry: Significant Cost Savings Through Environmental Initiatives*. ATEM- AAPPA 2001 Conference.

(<http://www.tefma.com/infoservices/papers/2001/SmithWaldron-aappa.html>)

Smith, M (2001) 'ANU's Whole System Approach to Water Management. From Science Buildings to Stormwater to Sullivan's Creek.' Australian Campuses Towards Sustainability conference.

(<http://www.sustainability.uts.edu.au/commitment/susconf timetable.html>)