

Curriculum Vitae (summary version)

Name: Dr Karen Turner

Degrees:

BA Economics (1st class Honours), University of Strathclyde, 1998
MSc Economics (Scottish Doctoral Programme), University of Glasgow, 1999
PhD Economics (Scottish Doctoral Programme), University of Strathclyde, 2002

Postgraduate employment:

April 2007 – present. Senior Lecturer, Department of Economics, University of Strathclyde
Oct 2004 – March 2007. Lecturer, Department of Economics, University of Strathclyde
Oct 2001 - Sept 2004. Research Fellow, Fraser of Allander Institute, University of Strathclyde
Oct 2000 - Oct 2001. Research Assistant, Fraser of Allander Institute, University of Strathclyde

Recent publications in refereed journals:

'Rebound and disinvestment effects in refined oil consumption and supply resulting from an increase in energy efficiency in the Scottish commercial transport sector' by S. ANSON and K. TURNER, *Energy Policy*, 37, 3608-3620. 2009.

'Negative rebound and disinvestment effects in response to an improvement in energy efficiency in the UK Economy, by K. TURNER, *Energy Economics*, 31, 648-666. 2009.

'Do increases in energy efficiency improve environmental quality and sustainability?' by N.D. HANLEY, P.G. MCGREGOR, J.K.SWALES and K. TURNER, *Ecological Economics*, 68, 692-709, 2009.

'Scotland the grey: a linked demographic CGE analysis of the impact of population ageing and decline' by K. LISENKOVA, P.G. MCGREGOR, N. PAPPAS, J.K. SWALES, K. TURNER and R. WRIGHT, *Regional Studies*, proofs in press doi: 10.1080/00343400701654228, 2008.

'Performing a multi-region environmental input-output analysis with limited data: the CO2 trade balance between Scotland and the rest of the UK' by P.G. MCGREGOR, J.K. SWALES and K. TURNER, *Ecological Economics*, Vol. 66, pp. 662-673, 2008.

'Concurrent and legacy economic impacts from establishing a marine energy sector in Scotland' by G.J. ALLAN, P.G. MCGREGOR, J.K. SWALES and K. TURNER, *Energy Policy*, Vol. 36, pp. 2734-2753, 2008.

'The impact of the Barnett formula on the Scottish economy: endogenous population and variable formula proportions' by L. FERGUSON, D. LEARMONTH, P.G. MCGREGOR, J.K. SWALES, K.R. TURNER, *Environment and Planning A*, Vol. 39(2), pp. 3008-3027, 2007.

'The impact of increased efficiency in the industrial use of energy: a computable general equilibrium analysis for the United Kingdom', by G. ALLAN, N.D. HANLEY, P.G. MCGREGOR, J.K.SWALES and K. TURNER, *Energy Economics*, Vol. 29(4), pp. 779-798, 2007.

'The impact of alternative electricity generation technologies on the Scottish economy: an illustrative input-output analysis', by G.J. ALLAN, P.G. MCGREGOR, J.K. SWALES and K. TURNER, *IMEC E: Journal of Power and Energy*, Vol. 221(2), pp. 243-254, 2007.

'Examining the Global Environmental Impact of Regional Consumption Activities – Part 1: A Technical Note on Combining Input-Output and Ecological Footprint Analysis', by KAREN

TURNER, Manfred Lenzen, Thomas Wiedmann and John Barrett, *Ecological Economics*, Vol. 62, pp. 37-44, 2007.

'Examining the Global Environmental Impact of Regional Consumption Activities – Part 2: Review of input-output models for the assessment of environmental impacts embodied in trade', by THOMAS WIEDMANN, Manfred Lenzen, John Barrett and Karen Turner, *Ecological Economics*, Vol. 61, pp. 15-26, 2007.

'Augmenting the Leontief Input-Output Framework for 'Common Pool' Resources: Operationalising the Full Leontief Environmental Model' by G. ALLAN, N.D. HANLEY, P.G. MCGREGOR, J.K. SWALES and K.R. TURNER, *Economic Systems Research*, Vol. 19, No. 1, pp.1-20, 2007.

'The importance of the regional/local dimension of sustainable development: an illustrative computable general equilibrium analysis of the Jersey economy' by D. LEARMONTH, P.G. MCGREGOR, J.K. SWALES, K.R. TURNER and Y.P. YIN, *Economic Modelling*, Vol.24, pp. 15-41, 2007.

'The additional precision provided by regional-specific data: the identification of fuel-use and pollution generation coefficients in the Jersey economy' by K.R. TURNER, *Regional Studies*, Vol. 40, No.4, pp. 347-364, 2006.

'Comparing augmented sustainability measures for Scotland: is there a mismatch?', by J.C.V. PEZZEY, N.D. Hanley, K. Turner and D. Tinch, *Ecological Economics*, Vol. 57, pp.60-74, 2006.

'The impact of a stimulus to energy efficiency on the economy and the environment: a regional computable general equilibrium analysis' by N.D. HANLEY, P.G. MCGREGOR, J.K.SWALES and K. TURNER, *Renewable Energy*, Vol. 31, pp. 161-171, 2006.

'Incorporating sustainability indicators into a computable general equilibrium model of the Scottish economy', by P.G. MCGREGOR, I. H. MCNICOLL, J.K. SWALES, K.R. TURNER and Y.P. YIN, *Economic Systems Research*, Vol. 17, No.2, pp. 103-140, 2005.

Recent publications in books (chapters):

'Lessons from recent computable general equilibrium analyses of energy efficiency improvements: rebound and backfire effects' by G. ALLAN, M. GILMARTIN, P.G. MCGREGOR, J.K.SWALES and K. TURNER, *Energy Efficiency Research Advances*, edited by David M. Bergmann, Nova Science Publishers, ISBN 1-60021-880-6, 2008.

'Modelling the economy-wide rebound effect' by G. ALLAN, M. GILMARTIN, P.G. MCGREGOR, J.K.SWALES and K. TURNER, *Energy Efficiency and Sustainable Consumption: The Rebound Effect*, edited by Steve Sorrell and Horace Herring, Palgrave MacMillan, ISBN 0-23052-5342, 2008.

Recently funded research:

As principal investigator:

- ESRC Climate Change Leadership Fellowship: '*Investigating the pollution content of trade flows and the importance of "environmental trade balance" in addressing the problem of climate change*'. Start date: October 2008 [ESRC Reference: RES-066-027-0029]. Work during the application process for the Fellowship also led to the award of two ESRC 1+3 studentships. Both of these are funded under separate ESRC initiatives but the PhD components are intended to be closely linked to, and extend, the research and capacity building conducted under the Fellowship.
- Project under ESRC First Grants Initiative: '*An empirical general equilibrium analysis of the factors that govern the extent of energy rebound effects in the UK economy*'. October 2007 – September 2010. [ESRC Reference: RES-061-25-0010]. One of the main outputs this project to date was an invitation to present a paper, 'A computable general equilibrium analysis of the relative price

sensitivity required to induce rebound effects in response to an improvement in energy efficiency in the UK economy', as a keynote speech at the International Input Output Association Meeting on Managing the Environment conference, held in Seville in July 2008.

- Project commissioned by Scottish Government: *'The impact on the Scottish economy of reducing greenhouse gas emissions in Scotland'*. February – July 2008. [SG ref: SAG/019/07]
- Project commissioned by SEPA: *'Workshop on economy-environment statistics and potential calculation of an ecological/carbon footprint for Scotland using input-output techniques'*. March 2008.

As co-investigator:

- Economic modelling component of extension to EPSRC-funded Supergen Marine energy research consortium: *'The economic, environmental and social impact of new marine technologies for the production of electricity'*. October 2007 – September 2010. [Grant Reference: EP/E040136/1]
- Project partner in EPSRC-funded Supergen Marine and Hydrogen consortium: *'Cross Technology, Innovation Dynamics and Scenario'*. July 2007 – June 2010.
- Economic modelling component EPSRC-funded Supergen marine energy research consortium: *'The economic, environmental and social impact of new marine technologies for the production of electricity'*. 2004-2007. [Grant Reference: GR/S26958/01]
- Project commissioned by DEFRA from the Fraser of Allander Institute: *'The macroeconomic rebound effect and the UK economy'*. 2006.

External Contributions

(a) Current contributions

July 2009	Scientific speaker at a public hearing, 'Energy Efficiency Policy for End-Users', organised by the European Economic and Social Committee (EESC) and held in Rome, 8 th July 2009.
September 2008 – present	ESRC Environment Consultation Group (Living With Environmental Change Initiative).
March 2006 – present	Scottish Government Input Output Expert User Group
August 2005 – present	Committee of the Regional Science Association International: British and Irish Section (RSAI:B&IS).

(b) Past Contributions

2006 – 2008	Scottish Government Steering Group on Additional Measures of Progress
2001 – 2004	Scottish Environmental Accounts Working Group (Scottish Executive)

Peer Review activities: ESRC, DEFRA, Ecological Economics, Regional Studies, Environmental Modelling and Assessment, Spatial Economic Analysis.