



**Economic and Social
Research Council,
Polaris House, North Star
Avenue, Swindon, SN2
1UJ**

**CENTRE/GROUP/NETWORK
DIRECTOR'S
ANNUAL REPORT FORM**

Tel: 01793 413000

Fax: 01793 413001



DIRECTOR'S ANNUAL REPORT 2008/9

Reporting period : from 1st April 2008 to 31st March 2009

Name of Centre/Group/Network: Research group on Lifestyles, Values and Environment (RESOLVE)

Director's name : Professor Tim Jackson

Start and End Dates : 1 May 2006 - 30 April 2011

Year of Operation : 3

Total budget from ESRC : £2,987,895

1. Introduction

The last year has been a challenging time to be engaged in research on lifestyle change. But RESOLVE is uniquely placed to ground topical debates about the economy and about lifestyle in sound scientific research and in particular to inform future visions for sustainable, low-carbon living.

The overall aim of RESOLVE is to develop a clear understanding of the links between lifestyles, societal values and the environment. In particular, RESOLVE aims to provide robust advice to policy-makers seeking to understand and to influence the behaviours and practices of 'energy consumers'. Since our launch in 2006, these issues have become an increasingly important aspect of debates about the environment – in particular in relation to climate change. During the last year, these questions have themselves been thrown into an even sharper relief because of the changing economic circumstances. A particular aim over the next reporting period is to engage with the new constraints imposed on people's lives as a result of the recession and to understand the implications of these in relation to people's environmental attitudes, values and behaviours.

Considerable progress has been made in all of the thematic strands against the core objectives. Particular achievements include: a novel methodology for distinguishing economic and 'non-economic' factors in consumption trends, a qualitative study of sustainable living in 'intentional' households; a social psychological study on influencing food behaviours, a psychometric analysis of the relationships between wellbeing, materialism and environmental behaviours, a 'willingness-to-pay' survey on household renewable energy, a quasi-multi-regional input-output framework for mapping carbon implications of UK lifestyles, a survey of international policy initiatives, and a qualitative study of people's motivations for engaging in pro-environmental behaviour. Academic output during the period included 40 journal publications, the (co-)hosting of 4 international workshops, 11 seminars in the RESOLVE a dedicated seminar series, 8 new papers in the RESOLVE working paper series, and 15 keynote presentations at international events.

User engagement has also continued at a high level. The subject of sustainable behaviours and behavioural change is now firmly embedded in both Defra and DECC policy thinking, in part as a result of RESOLVE's influence. Specific contributions have been made over the year to the Carbon Trust, the Eden Project, Global Action Plan, Homebase, the Sustainable Development Commission, Defra, BERR, DECC, the Westminster Business Forum, and HMT. RESOLVE's international profile continues to grow through engagement in EU FP7 and through collaborations in New Zealand, China, Sweden, Denmark, Canada and the US. A particular highlight is our contribution to UNEP's Sustainable Lifestyles Survey.

2. Impact and Highlights

In this section we highlight two of the most successful aspects of our work in each of three categories: research progress; academic impact and social impact.

Research Progress

We highlight here two specific areas of progress amongst many. The first is research from the V1/H1 area of RESOLVE, involving econometric analysis. This work uses a Structural Time Series model in order to quantify the relative influence of economic drivers (such as price and income) and other non-economic factors on the demand for consumer goods in 12 separate consumption categories. In separating out the income and price effects, the model reveals an underlying stochastic trend that captures important 'unobserved' components including changes in technologies, attitudes, values and lifestyles.

The team also developed a novel graphical representation of these changes over a forty year period. The work reveals that in some consumption categories and over some time periods, price and income effects dominate. But in other categories or over different time periods, price and income effects recede in importance and changes in demand are driven much more strongly by exogenous non-economic factors, including lifestyle change. The strategic importance of this work for RESOLVE is its ability to integrate an econometric understanding of behaviour change with a social or psychological one. Future work could explore changes in consumer behaviour through periods of recession or could attempt to

'endogenise' some social or psychological variables. The study has been presented at several international workshops.

The second chosen highlight is a qualitative sociological study on 'Sustainable Lifestylers'. A series of in-depth interviews was conducted with 25 'intentional' households who declared themselves to be trying to live more sustainably. This work has contributed to a small but growing body of sociological work around issues of sustainable consumption and sustainable lifestyles. Questions of moral meaning and sacrifice were salient, while all respondents identified the need for structural changes in the systems of provision. On the positive side, respondents suggested that living more sustainably can provide alternative sources of meaning in people's lives. The study has been presented at several seminars and has led to a number of research publications (Annex 1). The team is building on this work in a number of different ways, firstly through a quantitative survey of intentional households; secondly through a separate ethnographic and longitudinal study of more 'mainstream' households; and thirdly through an exploration of the concept of the citizen-consumer, drawing on empirical data from three separate studies involving RESOLVE researchers.

Academic Impact

RESOLVE's academic impact has been substantial across all of the thematic strands, with extensive involvement in a wide variety of academic events and numerous publications (Annex 1). We highlight here two specific impacts. The first was our successful international conference on Community Action on Climate Change, hosted by RESOLVE at the University of Surrey in December 2008. The aim was to explore the social drivers and barriers to effective community engagement in carbon reduction. The event attracted over 80 academics, practitioners and policy-makers and included a special address by Prof Mike Kelly, chief scientist at the Department for Communities and Local Governance and a presentation on the solar city concept in Freiburg, Germany, Guildford's twin city. An edited collection of papers from the conference is now in preparation and will be published by Edward Elgar early in 2010.

RESOLVE's work has contributed to a growing awareness of the importance of behavioural dimensions of climate change internationally. We highlight here Prof David Uzzell's contribution to a symposium 'Beyond Technology: Changing the Ways We Live?' at the Climate Change: Global Risks, Challenges and Decisions, Copenhagen, Denmark, 10-12 March 2009. This was part of the scientific preparatory work for COP15 in December 2009. David Uzzell's paper, *Critical Issues in the Psychology of Behaviour Change for Climate Change* reviewed current research on behaviour change in relation to sustainable consumption and suggested some challenges for psychology and social science if we are to meet national and international government climate change targets.

Economic and Social Impact

RESOLVE's core outputs do not tend to have immediate economic impacts in the form of financial returns, increased competitiveness, or patentable innovations. However, it has become clear over the last few years that our societal impact is quite large. The group is well-known both in the UK and abroad, and our involvement is routinely invited in practical initiatives for sustainable lifestyles from a wide variety of business, policy and Third Sector Organisations. We mention here Prof Hunt's involvement in the DIUS Foresight project on Sustainable Energy Management in the Built Environment (SEMBE) which launched its final report in November 2008. The work highlighted the challenges of retrofitting existing buildings for energy efficiency and attracted considerable media interest.

A further highlight has been our involvement in the Eden Project's 21st Century Living project, sponsored by the retailer Homebase. This project aims to understand and encourage greener lifestyles amongst the UK population. RESOLVE has worked closely with Homebase and the Eden Project to analyse (in both social psychological and energy terms) the progress of 100 households (around 200 people) in trying to live more sustainably. The first wave of this project is completed and a working paper is near completion. The second wave of the study is due in 2009. In addition the project will be expanded to include an additional control group to the study and participants will be contacted again in 2010. The work will also be presented at the 8th Biennial Conference on Environmental Psychology.

3. Progress against Objectives

In general terms, RESOLVE is performing very well against its objectives. The RESOLVE Interdisciplinary Seminar Series (RISS) is now well established and regularly attracts a wide audience. The Working Paper series is growing steadily and included 8 new papers in the last year. Our milestones included a proposal for a 'mid-term' academic conference. During 2008/9 RESOLVE hosted or co-hosted 4 separate international events associated with individual themes. Plans for a cross-RESOLVE mid-term conference are near finalisation and the event will be held on 18th June 2009 at the New Connaught Rooms in London. All but one research posts have now been appointed and all allocated PhD students are now in place. Additional funding has been attracted and several substantial new proposals have been submitted. The following paragraphs summarise progress in each of the individual research strands and in the crosscutting aim of research development.

Carbon Footprinting (V1)

The principal aim of the V1 theme is to develop robust tools to map the carbon impacts of people's lifestyles. Progress has been made against all the objectives set out in the last annual report. We have already mentioned the novel development of the Structural Time Series Model which facilitates an understanding of economic and noneconomic trends in consumer demand. This econometric model is now being used to build a reference scenario for carbon emissions associated with future consumption patterns. This will provide the basis for one of RESOLVE's core objectives: to develop lifestyle scenarios (see below). The model relies on historical time series estimates of the carbon emissions attributable to different categories of consumer expenditure. These estimates are one of the key outputs from the SELMA environmental input-output model. A further development of the SELMA framework during 2008/9 was the development of a quasi-multi-regional dimension to the model. This represents an efficient first step towards the development of full multi-regional models and is unique in the literature. Finally, this year saw the appointment of a new PhD student on the V1 strand. Chris Kukla will be using the V1 toolbox at household scale and developing a framework for monitoring energy and carbon against targets at household level.

Social Psychology of Energy-Related Behaviours (V2)

The aim of the V2 strand is to explore the psychological aspects of energy-related behaviours. We have already highlighted the involvement of the V2 team in the Homebase/Eden Project study. This project expands previous research in RESOLVE on the relationship between materialism, environmental values and pro-environmental behaviours – particularly amongst young people. Since the first data collection (with BTCV) during 2007/8, additional data have now been collected in the UK, Spain and China. Working papers on both studies have been published during 2008/9. The first stage of a Food Study – examining how people respond to information about meat consumption – has now been completed. A further stage is planned for 2009/10. A new researcher Emma White has been appointed to work on a project which takes a 'life histories' approach to changing consumption. This research aims to understand how the historical social, economic and political context of people's lives impacts upon the everyday life of individuals. Methodology development and pilot interviews have been completed and 15 interviews will be conducted during June 2009. The work will be presented at the 8th Biennial Conference on Environmental Psychology, Zurich. A quantitative study on mindfulness and consumption has been completed and is currently being written up. Data from a qualitative interview study with people who have completed a mindfulness course are currently being analysed. A major intervention study is being planned for second half of the coming year. Finally, the V2 strand has been actively engaged in two aspects of the V3 work programme:

Sociology of Lifestyles (V3)

The principal aim of the V3 strand is to explore the social and cultural dimensions of sustainable lifestyles. Perhaps the most important milestone achieved during 2008/9 was the Sustainable Lifestyles study mentioned in the highlights. The study contributed to a number of key understandings about such households. In particular (i) how 'sustainability' and 'lifestyles' are made sense of in a wider cultural context (ii) the nature of contradictions and

(perceived) inconsistency in practice and (iii) the significance of moral economies in relation to practices of sustainable consumption. One paper on the study has been accepted for journal publication and several others are in preparation. Two follow-on studies – a quantitative survey on sustainable living and a further qualitative study on 'Everyday life and the Environment (ELATE) have been designed and will be carried out during 2009/10. A new research appointment was made during 2008. Dr Justin Spinney was recruited to work on the relationship between production and consumption. He has now developed a project plan for two empirical case studies, one with Hewlett Packard and one with Panasonic. The project complements the extensive work on consumer lifestyle by looking at some of the ways in which producers seek to construct and influence consumer preferences. Finally, the V3 PhD project is now well underway and involves an ethnographic study of the work of Julie's Bicycle, an industry working group on climate change.

Lifestyle Scenarios (H1)

The principal aim of the H1 theme is to develop scenarios for lifestyle change and to explore the energy and carbon implications of these. During 2008/9, this work has developed on two fronts. Firstly, the modelling work with V1 (see above) has established time series trend data on which to build a 'Reference Scenario' for carbon emissions based on a 12 sector consumer demand framework. The 'carbonisation' of this model is now complete and the next stage is to finalise economic and socio-political assumptions for the Reference Scenario. Secondly, the PhD recruited to this strand has now evolved a project plan from which to develop the framework for scenario analysis. In the early stages, this framework will involve in-depth interviews with key stakeholders. The project will also explore the epistemological basis for scenarios of this kind.

Policy and Governance (H2)

The H2 strand aims to address the role of policy in effecting a transition to a sustainable energy economy and to assess the implications for governance. The work in H2 has progressed on two fronts. The first relates to the continued work on policy analysis of energy and climate. During 2008/9, the initial UK-focussed work has been broadened to an international context. Taking a broadly political economy approach, the new study explores the impact of international climate and energy regimes on national and local energy and climate agendas. A second strand within H2 relates to community engagement. Broadly, this focuses on local initiatives pursued by state actors as well as non-state actors, and the comparative advantage associated with a variety of community-based interventions. A primary phase of local authority driven community research was completed during 2008/9. This involved stakeholder research carried out in collaboration with three large English local authorities and focused on their attempts to engage individuals and communities in addressing climate change through lifestyle change. The analysis will be completed by May 2009 and several publications are already in progress. We have already mentioned as a highlight the RESOLVE conference *Community Action on Climate Change* which was convened around this theme. Papers from the conference will be published as an edited collection. A special issue on Low Carbon Communities is planned for *Energy Policy* involving a variety of papers from the UK, US, Canada, Australia and Japan, exploring the different models and exemplars of low carbon communities.

Capacity Building and Research Development

RESOLVE's capacity building aims have been furthered during 2008/9 by the appointment of our final PhD students and two new researchers. Researchers in RESOLVE have benefited from a high number of visitors (75 in total including 8 visiting fellows), 11 interdisciplinary seminars (RISS) and 12 internal research meetings during 2008/9. They continue to have access to high-quality teaching and supervision and the opportunity to attend conferences and visit other institutions. In terms of research development, RESOLVE has submitted several substantial proposals during 2008/9, including: two EU FP7 proposals (one on social change in coastal cities and one on low consumption economies), a proposal for a 'rotating module' on sustainability and materialism in the European Social Survey and a collaborative bid for the ESRC/Defra Centre on Sustainable Behaviours.

4a. Investment Specific Indicators

Indicator Group A: Publications

RESOLVE has now contributed to a substantial body of published literature on sustainable lifestyles, energy consumption, carbon reduction and environmental attitudes and behaviours. A total of 96 papers were published, in press or under review during the year, including 40 peer-reviewed journal articles, 31 conference papers and 8 RESOLVE Working Papers. A full list of publications is included at Annex 1, and Annex 2A contains a breakdown by type.

Indicator Group B: Dissemination and Engagement

RESOLVE's dissemination and engagement activities have continued to expand. Senior RESOLVE staff have had a strong presence in UK and international debates on the sustainable behaviours and lifestyles. During 2008/9 included 15 keynote presentations by RESOLVE personnel, 11 RESOLVE Interdisciplinary Research Seminars, a total of 4 international events organised by RESOLVE in collaboration with user organisations, several popular articles, participation in over 30 conferences and seminars, including two ESRC public events and several engagements in the media. Full details of Key Performance Indicators in this category are given in Annex 2B.

Indicator Group C: Financial Resources

Total spend on the ESRC budget during 2008/9 amounted to £508,662 against a predicted spend of £687,857. The underspend is due in part to lower than predicted social research costs in the early part of the programme and lower travel costs because of external contributions to funding. The Host Institution Contribution of £129,124 amounts to 25.4% of the ESRC spend. Third party contributions totalling £287,796 have been received, equivalent to 20% of the ESRC spend. More financial details are provided in Annex 2C.

Indicator Group D: Staff Resources

Staff resources on RESOLVE have expanded slightly during 2008/9 and now include the full-time Director, the Administrative Coordinator (Gemma Cook has now taken over from Wendy Day on a permanent basis), 7 Co-investigators, 8 research fellows, 6 PhD students, 2 affiliated researchers, 4 visiting fellows and 3 associated MSc students. Full details are at Annex 2D.

4b. ESRC General Indicators for Reporting Guidelines*Section 4b: ESRC General Indicators for Reporting to Government*

Name of investment: RESOLVE	
Indicator	Number
Indicator A: Number of activities and events involving the general public	13
Indicator B: Number of projects attracting co-funding	6
Indicator C: Number of public policy/business orientated seminars and workshops	11
Indicator D: <i>(i) How many non-academic users have worked within the investment on a formal basis to complete a specific programme of work?</i> <i>(ii) How many researchers have the investment placed in user organisations on a formal basis to complete a specific programme of work?</i> <i>NB – placements funded through ESRC placement schemes should not be included.</i>	(i) Number of non-academic users hosted: N/A (ii) Number of researchers placed in user organisations: N/A
Indicator E: Number of non-academic users on the investment's Advisory Committee	(i) Total number of Advisory Committee members: 18 (ii) Total number of non-academic user members: 13 <i>Including:</i> Number of private sector members: 3 Number of public sector members: 14 Number of third sector members: 1

Indicator A: Activities and events involving the general public

For each activity/event please complete the table below:

Title:	Date:	Format: [<i>type of event (e.g. lecture/broadcast...)</i>]	Number of participants:
IAPS – Interventions in Environmental Psychology	28.07.08 - 01.08.09	Conference	20
Sustainable Practice in Universities: Leading and Improving	04.09.08	Conference	200
Engaging the public in climate change and energy demand reduction	07.10.08 - 08.10.08	Conference	50
Sustainable Practice in Universities: Leading and Improving	11.12.08	Conference	80
Business, energy and the Environment The Business environment”	20.03.09	Conference/Debate	60

Indicator B: Number of projects attracting co-funding

For each project please complete the table below:

Name of project:	Amount of external funding:	Name of co-funding body/bodies:
PAS 2050: carbon embedded in capital goods	£3,450	Carbon Trust
Environment Agency: Sustainable Behaviour Bibliography	£2,250	Environment Agency
21st Century and Eden Project	£4,000	Eden Project, Homebase
BarEnergy	£49,060	EU FP7
FCRN	£6,551	EPSRC
Defra 407 Motivations	£44,333	Defra

Indicator C: Public policy/business orientated seminars and workshops

For each event please complete the table below:

Title:	Date:	Target audience: <i>[private sector/public sector/practitioners/third sector]</i>	Number of participants:
Resolving the enigma of sustainable development	16.04.08	Open	37
Delivering Sustainable Lifestyles	19.05.08	Open	31
Wellbeing and the Natural Environment: The impact of green spaces on wellbeing	25.06.08	Open	27
Waste behaviour change – Linking theory and practice	21.07.08	Open	24
Avoiding Greenwash - How to Align your Communications with Sustainable Principles and Practice	03.09.08	Open	38
Micro-generation: An energy revolution?	21.10.08	Open	27
Growing Greens? Children's attitudes to citizenship, environment and climate change: The New Zealand experience	11.11.08	Open	36

"'I shop, therefore I am?" The interlinking of identities and consumption for young people'	21.01.09	Open	39
The Influence of an Ecological Worldview on Consumers' Pro-environmental Attitudes, Behaviours and Choices: What's Love Got to Do with It?	18.02.09	Open	26
Managing without Growth. Slower by Design, not Disaster	13.03.09	Open	41
Encouraging pro-environmental behaviour	16.03.09	Open	52

Indicator D: Number of (i) non-academic users hosted and (ii) number of researchers placed in user organisations NB – Placements funded through ESRC placement schemes should not be included.

For each placement please complete the table below:

Name:	Hosted: [Where from?]	Placed: [Where to?]	Dates/duration:	Purpose:
N/A	N/A	N/A	N/A	N/A

ANNEX 1

Publications

The following publications are listed as evidence of an extensive publication outputs since the beginning of RESOLVE. We identify here three distinct categories of RESOLVE-relevant output, marked appropriately in the list below by the following symbols:

- § denotes outputs (published, in press or in draft) which have arisen entirely from RESOLVE research funded under the core budget.
- ‡ denotes outputs (published, in press or in draft) which have arisen at least partly from RESOLVE research funded at least partly under the core budget.
- † denotes outputs which are RESOLVE-relevant and have involved contributions from at least one of the RESOLVE team.

Books

2010

‡ Peters, M., Fudge, S. and Jackson, T (Eds) (forthcoming in 2010) 'Low Carbon Communities: Imaginative Approaches to Combating Climate Change Locally'. Edward Elgar, Cheltenham.

2009

† Cooper, G, King, A, and Rettie, R (eds) (2009) *Sociological Objects: reconfigurations of social theory*, Aldershot: Ashgate

§ Jackson, T 2009. Prosperity without Growth? Steps to a Sustainable Economy. London: Sustainable Development Commission.

§ Mulugetta, Y. (forthcoming) 'Political ecology of carbon trading in Africa', in Reddy, T. (ed) *Climate Change in Africa: Governance of Carbon Trading*, Institute of Strategic Studies, Cape Town.

2006

† Jackson, T. (2006) *Earthscan Reader in Sustainable Consumption*. London: Earthscan.

Book Chapters

2010

§ Peters, M., Fudge, S. and Jackson, T. (forthcoming, Spring 2010) Preface and Introductory Remarks in Peters, M., Fudge, S. and Jackson, T (Eds) (forthcoming Spring 2010) 'Low Carbon Communities: Imaginative Approaches to Combating Climate Change Locally'. Edward Elgar, Cheltenham.

§ Peters, M. (forthcoming, Spring 2010) Some Introductory and Conceptual Observations about Communities and Social Change in Peters, M., Fudge, S. and Jackson, T (Eds) (forthcoming Spring 2010) 'Low Carbon Communities: Imaginative Approaches to Combating Climate Change Locally'. Edward Elgar, Cheltenham.

2009

† Spinney J, 2009 (forthcoming) "Improvising rhythms: re-reading urban time and space through everyday practices of cycling" in Edensor T, *Geographies of rhythm* (Ashgate, Aldershot)

† Brown K & Spinney J, 2009 (forthcoming) "Catching a glimpse: the value of video in evoking, understanding and representing the practice of cycling" in Fincham B, McGuinness M & Murray L (Eds) *Mobile Methodologies* (Palgrave, Hants)

2008

- § Jackson, T 2008. Motivating Sustainable Consumption. Chapter 6 in Reddy, S (ed) *Green Consumerism – approaches and country experiences*. Hyderabad, India: Icfai University Press, 94-107.
- § Jackson, T 2008. Sustainable Consumption and Lifestyle Change. Chapter 14 in Lewis A (ed) *Handbook of Economic Psychology*. Cambridge: Cambridge University Press, 335-362.
- § Jackson, T. (2008) The Challenge of Sustainable Lifestyles. Chapter 4 in G Gardner and T Prugh State of the World 2008. Washington DC: WorldWatch Institute, 45-60.

2007

- † Gatersleben, B. (2007). Affective and symbolic aspects of car use: a review. In: T. Gärling and L. Steg (eds). *Threats to the Quality of Urban Life from Car Traffic: Problems, Causes, and Solutions*, Elsevier, Amsterdam, Chapter 12, 219-234.
- § Jackson, T. (2007) Sustainable Consumption. Chapter 16 In Atkinson, G, S Dietz and E Neumayer (eds). *A Handbook of Sustainable Development*, Cheltenham: Edward Elgar, 254-268.
- † Moser, G. and Uzzell, D. (2007) 'Environmental Psychology', in R. Baumeister and K. D. Vohs (eds.) *Encyclopedia of Social Psychology*, San Francisco: Sage.

2006

- † Jackson, T (2006) Consuming Paradise? Towards a socio-cultural psychology of Sustainable Consumption. Chapter 25 in Jackson, T (ed) *Earthscan Reader in Sustainable Consumption*. London: Earthscan.
- † Jackson, T (2006) Challenges for Sustainable Consumption Policy. Chapter 6 in Jackson, T (ed) *Earthscan Reader in Sustainable Consumption*. London: Earthscan.
- † Jackson, T (2006) Readings in Sustainable Consumption. Chapter 1 in Jackson, T. (ed) *Earthscan Reader in Sustainable Consumption*. London: Earthscan.

Journal Papers (published, in press or under review)

2009

- † Abrahamse, W. and L Steg 2009 (in press). How do socio-demographic and psychological variables relate to households' direct and indirect energy use and savings? *Journal of Economic Psychology*.
- ‡ Alexander, C., A. Druckman, T. Jackson and C. Osinski 2009 (forthcoming). "Estimations of household material flows in deprived areas." *Proceedings of the Institution of Civil Engineers: Waste and Resource Management*
- ‡ Bradley, P., C. Thomas, A. Druckman and T. Jackson (2009). "Accounting for Waste: comparative analysis within the UK". *Proceedings of the Institution of Civil Engineers: Waste and Resource Management*, 162(1): 5:13
- § Druckman, A. and T. Jackson (2009). The carbon footprint of UK households 1990-2004: a socio-economically disaggregated, quasi-multi-regional input-output model. *Ecological Economics* (in press).
- § Evans, D. and Abrahamse, W. (2009) Beyond Rhetoric: the Possibilities of and for 'Sustainable Lifestyles', *Environmental Politics (Awaiting Issue)*
- § Evans, D. (2009) review of Philip Sutton's *The Environment: a Sociological Introduction*, *Environmental Politics* (awaiting issue)
- ‡ Evans, D. (2009) Multi-Site Ethnography: Theoretical Promises, Methodological Challenges, under review
- § Fudge, S and Peters, M. (2009) 'Motivating Carbon Reduction in the UK: the role of local government as an agent of social change'. *Journal of Integrative Environmental Sciences*, Spring 2009 in press.
- § Fudge, S., Jackson, T., Mulugetta, Y. and Peters, M (2009) *Reconciling markets and governance: energy regulation in the UK 1989 – 2007*. *Energy Policy*, under review.

- † Gifford, R., Scannell, L., Kormos, C., Smolova, L. and Uzzell, D. (2009) 'Temporal Pessimism and Spatial Optimism in Environmental Assessments: An 18-Nation Study', *Journal of Environmental Psychology*, 29, 2.
- ‡ Papathanasopoulou, E. and T. Jackson. (2009) "Production versus consumption perspectives – attributing fossil resources to UK households between 1968 and 2000." *Energy Policy*. Under review.
- ‡ Papathanasopoulou, E and T Jackson 2009 (in press). Are we really dematerialising? Evidence from the UK 1968 – 2000. *Journal of Industrial Ecology*.
- ‡ Papathanasopoulou, E and T Jackson 2009 (In press). Measuring Fossil Resource Inequalities. *Ecological Economics*.
- † Rätzzel, N. and Uzzell, D. (2009) 'Transformative environmental education: a collective rehearsal for reality', *Environmental Education Research*, 15, 3, 263 – 277. <http://dx.doi.org/10.1080/13504620802567015>
- † Rätzzel, N. and Uzzell, D. (2009) "Changing Relations in Global Environmental Change Global Environmental Change, *Global Environmental Change*. Under review.
- ‡ Spence, A., Pidgeon, N. and Uzzell, D (2009) 'Climate Change: Sparking off Debate about the Hot Topic', *The Psychologist*, 22, 2, 118-121
- † Spinney J, (forthcoming) "Cycling the city: movement, meaning and method" *Geography Compass* (Blackwell online publication)
- † Nigbur, D., Lyons, E., and Uzzell, D (2009) Attitudes, norms, identity and environmental behaviour: Using an expanded theory of planned behaviour to predict participation in a kerbside recycling programme, *British Journal of Social Psychology*. Under Review.
- † Uzzell, D. and Rätzzel, N. (2009) 'Transforming Environmental Psychology', *Journal of Environmental Psychology*, downloadable from [doi:10.1016/j.jenvp.2008.11.005](http://dx.doi.org/10.1016/j.jenvp.2008.11.005)

2008

- ‡ Amarawickrama, H.A. and L.C. Hunt. (2008) 'Electricity Demand for Sri Lanka: A Time Series Analysis', *Energy*, Vol. 33, No. 5: pp. 724-739
- ‡ Chontanawat, J., R. Pierse and L.C. Hunt. (2008) 'Does energy consumption cause economic growth? : Evidence from a systematic study of over 100 countries', *Journal of Policy Modeling*, Vol. 30, No. 2: pp. 209-220
- § Druckman, A. and T. Jackson (2008). "Household energy consumption in the UK: a highly geographically and socio-economically disaggregated model." *Energy Policy* 36(8): 3167-3182.
- § Druckman, A. and T. Jackson (2008). "Measuring resource inequalities: the concepts and methodology for an area-based Gini coefficient." *Ecological Economics*, 65, 242-252.
- § Druckman, A., P. Bradley, E. Papathanasopoulou and T. Jackson. (2008). "Measuring Progress towards Carbon Reduction in the UK." *Ecological Economics* 66(4): 594-604
- § Druckman, A., P. Sinclair and T. Jackson (2008). "A geographically and socio-economically disaggregated local household consumption model for the UK." *Journal of Cleaner Production* 16(7): 870-880.
- † Gatersleben, B. (2008). Humans and nature; Ten useful findings from Environmental Psychology research, *Counselling Psychology Review*, 23,2, 24-34.
- † Gatersleben, B. and Haddad, H. (2008). Who is the typical cyclist? *Transportation Research, part F*. Submitted.
- ‡ Fudge S. (2008) 'Reconciling agency with structure: the contradictions and paradoxes of capacity building in Wales' 2000-2006 Objective 1 programme'. *Critical Social Policy*. Accepted for publication.
- ‡ Hogg, N and T. Jackson (2008). Dematerialisation and Digital Media. *Journal of Industrial Ecology*. vol 13(1): 127-146
- ‡ Jackson, T. and E. Papathanasopoulou (2008) Luxury or Lock-in? - an examination of unsustainable consumption in the UK 1968 - 2000. *Ecological Economics* 68: 80-95.
- ‡ Jackson, T. (2008) Where is the Wellbeing Dividend? Nature, Structure and Consumption Inequalities. *Local Environment* 13(8), 703-724

- ‡ Mulugetta, Y. (2008) 'Human capacity and institutional development towards sustainable energy in Africa: Diagnosis and interventions', *Renewable and Sustainable Energy Reviews* 12(5): 1435-1450.
- ‡ Papathanasopoulou, E. and T. Jackson. (2008) Dependency of Household Consumption on Imported Fossil Resources – an input-output analysis for the UK between 1968 and 2000. (submitted to the *Journal of Industrial Ecology*).
- ‡ Papathanasopoulou, E. and T. Jackson (2008). "Measuring fossil resource inequality—A case study for the UK between 1968 and 2000 " *Ecological Economics* 68(14): 1213-1225
- ‡ Papathanasopoulou, E and Jackson, T 2008. Fossil Resource Trade Balances: emerging trends for the UK. *Ecological Economics*. 66(2-3) 492-505.
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- § Jackson, T and Cooper, G (2009) From the sublime to the ridiculous: lessons from interdisciplinary research in lifestyles, values and environment, paper to be presented at 4th International Conference on Interdisciplinary Social Science, 8-11 July, Athens, Greece
- § Peters, M. (2009) "Community Action on Climate Change: Encouraging Sustainable Energy use and Practical Carbon Reduction" to be presented at the 5th World Environmental Education Congress - 5WEEC, Palais des congrès Montreal, May 10-14, 2009.

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- ‡ Armstrong, A and T Jackson (2008). Tied up in 'Nots': an exploration of the link between consumption and spirituality. European Sociological Association conference, Helsinki, August 2008.
- § Cooper, G, Bottrill, C, Burningham, K, Evans, D, Green, N and Jackson, T (2008) Unravelling the threads: discourses of sustainability and consumption in an online forum, 4S/EASST Conference, Rotterdam, 20-23 August 2008
- † Dickinson J.S., Cripps A.J., Jackson T. Matthews M., 2008, Analysing the Economic and Carbon Dioxide Reduction Viability of GSHPS in the K into the Future, Heat Pump 2008 Zurich Switzerland May 20-22 2008.
- ‡ Druckman, A., Bradley, P., Jackson, T., Banks, C., Maycox, A., Khan, T., Thomas, C., Yoxon, M. (2008) Waste and Resource Mapping. Chartered Institution of Wastes Management (CIWM) Waste Symposium. Paignton, UK. 10-13 June.
- § Druckman, A. and T. Jackson (2008). The carbon footprint of UK households 1990-2004: a socio-economically disaggregated, quasi-multi-regional input-output model. The

- 2008 International Input-Output Meeting on Managing the Environment Seville, Spain. 9-11 July 2008.
- ‡ Druckman, A., Bradley, P., Jackson, T. (2008) Waste and Resource Mapping. Strategies and Technologies for Sustainable Urban Waste Management Symposium. Mayfair Conference Centre, London. April 21 2008.
- § Evans, D. and G. Cooper (2008) The Moral Economy of Sustainable Consumption, presented at the European Sociological Association's (Sociology of Consumption Network) interim meeting, Helsinki .
- § Evans, D. (2008) Sustainable Living in an Unsustainable World, to be presented at the International Sociological Association's Forum of Sociology, Barcelona
- § Fudge, S., Mulugetta, Y. and Peters, M. (2008) "Negotiating the Macro and the Micro Policy Terrain towards a Low-Carbon Economy". Climate change impacts and adaptation: Dangerous rates of change Conference. University of Exeter and Met Office. 22–24 September 2008 at the University of Exeter. Platform presentation
- § Fudge, S., Jackson, T., Mulugetta, Y., Peters, M and Hunt, L. (2008) "Reconciling markets and governance: energy regulation in the UK 1989 – 2007" 7th BIEE Academic Conference The New Energy challenge: Security and Sustainability, St. John's College in Oxford 24-25 September 2008. Platform presentation by S. Fudge.
- § Gatersleben, B. 21st century living project. EPRG seminar. 3 Dec 2008.
- § Gatersleben, B. (2008). RESOLVE, an overview. International Symposium Perspective on Sustainability in Everyday Practices, University of Surrey 6-7 November 2008.
- † Gatersleben, B. Travel behaviour research at the University of Surrey. CTP meeting at JMP consultants, Bristol, 8 May 2008.
- ‡ Gatersleben, B. and Westacott, K. (2008). The impact of value consistent and value inconsistent messages on intentions to save energy. IAPS conference, July, 2008, Rome
- § Gatersleben, B. (2008). Motivation of pro-environmental behaviour Egoism, altruism, anthropocentrism; does it really matter? IAPS-Sustainability Symposium. IAPS conference, July, 2008, Rome
- § Peters, M. and S. Fudge. (2008) Motivating Individual Carbon Reduction Through Local Government-Led Community Initiatives in the UK. Sustainable Consumption and Production: Framework for action, 10-11 March 2008, Brussels, Belgium. Conference of the Sustainable Consumption Research Exchange (SCORE!) Network.
- § Karlsson, S., Mulugetta, Y. and Vihma, A. (2008) 'Negotiating Solidarity: Strategies for Adapting G77 Institutions to Climate Change' to be presented at the sixth International Human Dimensions Workshop (IHDW), New Delhi, 28 October 2008.
- § Mulugetta, Y., Karlsson, S. and Vihma, A. (2008) 'G77: Tensions between Self interest and Unity in Climate negotiations' To be presented at the 2nd Global International Studies Conference, Slovenia, 25-27 July 2008.
- § Peters, M. (2008) "Educational community-based climate change initiatives in the UK: the role of local government and the experience of participants". 10th Conference on Environmental Education in Europe, 15-19 October 2008, Valletta, Malta. Platform presentation.
- † Rätzl, N. and Uzzell, D (2008) 'Changing Relations in Global Environmental Change', First ISA Forum of Sociology, Sociological Research and Public Debate, Barcelona, Spain, 5 - 8 September
- † Shaw, R., M. Attree and T. Jackson (2008). Cost-reflective pricing and the electricity distribution networks. BIEE, Oxford. 2008 – BIEE - British Institute of Energy Economics 7th Academic conference (September 2008)
- ‡ Uzzell, D. (2008) 'The challenge of climate change; the challenge for psychology', Invited Keynote Speaker, 2008 Annual Conference , Australian Psychological Association, 23 – 27 September 2008, Hotel Grand Chancellor, Hobart
- ‡ Uzzell, D. (2008). 'Human Behavior and Climate Change: A Social Justice Issue', Invited paper to the Second Annual Psychology Day at the United Nations, *Psychology and Social Justice Related to the UN Global Agenda*, United Nations Headquarters, New York, November 19, 2008

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- † Uzzell, D. (2008) 'The "Ecologization" of Psychology': Carl Graumann as an Influential Figure in Environmental Psychology', Paper presented at the 2008 IAPS Conference: "Urban diversities, biosphere and well-being" Rome, 28th July – 1st August, 2008
- ‡ Uzzell, D. (2008) Changing Climate, Changing Lifestyles, Changing Psychology, Conference on *Sostitibilidade e Cultura Ambiental en Galicia*, Hotel Eurostars-Palace, University of La Coruña, 18th April 2008.
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- ‡ Bradley, P., T. Jackson, A. Druckman and E. Papathanasopoulou. (2007). Attributing Upstream (Process) Wastes to Household Consumption Activities - a case study for selected waste streams of the UK; 1995 and 2004. 11th European Roundtable on Sustainable Consumption and Production., Basel, Switzerland. 20-22 June 2007.
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- § Evans, D. (2007) Towards a Sociology of Sustainable Lifestyles, presented in September 2007 at the European Sociological Association's conference (Environment and Society Network).
- ‡ Garnett, T. and T. Jackson (2007) Frost Bitten: an exploration of refrigeration dependence in the UK food chain and its implications for climate policy. Paper presented to the 11th European Roundtable on Sustainable Consumption and Production, June 20-22 2007 in Basel, Switzerland.
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- ‡ Peacock, A., .P Banfill, S. Turan, D. Jenkins, M. Ahadzi, G. Bowles, D. Kane, M. Newborough, P. Eames, H. Singh, T. Jackson, and A. Berry. (2007) "Reducing CO2 Emissions through Refurbishment of UK Housing." *Energy Markets and Sustainability in a Larger Europe*. ECEEE: Florence, Italy.
- † Shaw, R., M. Attree, M. Haniak, M. Kay, and T. Jackson. (2007) A Tool to Analyse the Regulatory Incentives on a Distribution Network Operator at a Project Level. *19th International Conference on Electricity Distribution*. CIREN: Vienna.
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- † Uzzell, D. and Rätzhel, N. (2007) 'Transformative sustainability, transforming policy research', The 7th biennial conference on Environmental Psychology (Division of the German Association of Psychology), Bayreuth, Germany, September 2007.
- † Uzzell, D. and Rätzhel, N. (2007) 'Scrutinizing the bill: the need for transformative environmental education', paper presented at the 4th World Environmental Education Congress, Durban, South Africa, 2 – 6 July 2007

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- § Abrahamse, W and D. Evans. (2006) Understanding Sustainable Energy Consumption: Multi-disciplinary Perspectives, ESRC Cultures of Consumption Workshop, Birbeck College, December 2006.
- ‡ Bradley, P., A. Druckman, E. Papathanasopoulou, P. Sinclair and T. Jackson. (2006). Attributing Waste to Household Functional Use - a pilot framework and case application for the UK. 9th Biennial Conference of the International Society for Ecological Economics (ISEE) December 15 - 19 2006, Delhi, India.
- § Druckman, A., P. Sinclair and T. Jackson. (2006). Household resource usage and its drivers: a highly socio-economically disaggregated model. International Sociological Association for the XVI World Congress, Durban, South Africa.
- ‡ Jackson, T, N McBride, and N Marks. 2006. "An Index of Sustainable Economic Wellbeing for the Yorkshire and Humber Region - a report for Yorkshire Futures." New Economics Foundation: London.
- † Jackson, T. 2006. "Beyond the 'Wellbeing Paradox': wellbeing, consumption growth and sustainability." New Economics Foundation: London.
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- † Marks, N, S Thompson, R Eckersley, T Jackson, and T Kasser. 2006. "Sustainable Development and Well-being: relationships, challenges and policy implications. A report by the centre for wellbeing, nef on Wellbeing Project 3b for Defra." 1-135. New Economics Foundation: London.
- ‡ Pepper, M., Jackson, T., and Uzzell, D. (2006). "Christianity and Sustainable Consumption: an investigation of religiosity and consumer behaviours." Religion and the Individual - BSA Sociology of Religion Study Group Conference, University of Manchester.
- ‡ Pepper, M, T Jackson, and D Uzzell. 2006c. "Environmentalism in Churches: attitudes and behaviours of UK Christians." *Critical Perspectives on Religion and Environment*: Birmingham
- † Trust, Carbon. 2006. The Carbon Emissions Generated in All That We Consume. London: The Carbon Trust.
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- § Druckman, A., and T. Jackson (2008) The Surrey Environmental Lifestyle Mapping (SELMA) Framework: Development and Key Results to Date, Resolve Working Paper Series 08-08, University of Surrey, December 2008
- § Evans, D., and T. Jackson (2008) Sustainable Consumption: Perspectives from Social and Cultural Theory, RESOLVE Working Paper Series 05-08, University of Surrey.
- § Fudge, S., Hunt, L., Jackson, T., Mulugetta, Y. and Peters, M. (2008) The political economy of energy regulation in the UK 1945 – 2007: Paradigms and policy. RESOLVE Working Paper Series, 02-08, University of Surrey.
- § Fudge, S. and Mulugetta, Y. (2008) Reconciling markets and governance: energy regulation in the UK 1989-2007. RESOLVE Working Paper Series, 03-08, University of Surrey.
- § Gatersleben, B., Meadows, J. Abrahamse, W. and Jackson, T. (2008). Materialistic and environmental values among young people volunteering in nature conservation projects. RESOLVE working Paer Series 07-08, University of Surrey
- § Peters, M. and S. Fudge. (2008) Local level policy making for carbon reduction in communities: the role of local government as an agent of social change. RESOLVE Working Paper Series 04-08, University of Surrey
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- ‡ Ahmadian, M., M. Chitnis and L C Hunt 2007. Gasoline Demand, Pricing Policy and Social Welfare in Iran. Surrey Energy Economics Centre Working Paper SEEDS 118. Guildford: University of Surrey.
- § Chitnis, M. and L.C. Hunt (2007) "Structural Time Series Estimation of Consumer Demand for COICOP 12", RESOLVE Working Paper Series (Draft), University of Surrey, October 2007.
- § Druckman, A and T. Jackson. (2007) The Local Area Resource Analysis (LARA) Model: Concepts, Methodology and Applications. RESOLVE Working Paper Series 02-07, University of Surrey.

- § Evans, D. and T. Jackson. (2007) Towards a Sociology of Sustainable Lifestyles. RESOLVE Working Paper Series 03-07, University of Surrey.
- § Evans, D. (2007) Attitudes, Values and Culture: Qualitative Approaches to 'Values' as an Empirical Category, RESOLVE working paper, 04-07
- ‡ Himanshu, A., Amarawickrama and L. C. Hunt. (2007) Electricity Demand for Sri Lanka: A Time Series Analysis, Surrey Energy Economics Centre Working Paper SEEDS 118, Guildford: University of Surrey.
- § Jackson, T., E. Papathanasopoulou, P. Bradley and A. Druckman. (2007) Attributing UK Carbon Emissions To Functional Consumer Needs: Methodology and Pilot Results. RESOLVE Working Paper Series 01-07, University of Surrey.

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- § Chitnis M. and L.C. Hunt. (2006) "Studies on consumer demand for goods and services" RESOLVE Working Paper Series (Draft), University of Surrey, Dec 2006.
- ‡ Garnett, T. (2006). The Impact of Refrigeration on Greenhouse Gas Emissions in the Food Supply Chain. FCRN/RESOLVE Working Paper Series (Draft), University of Surrey, Nov 2006.

Other Publications

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- ‡ Peters, M. Clift, R., Sinclair, P., Fudge, S. and Ogunkunle, D. (2009) An empirical study exploring the views of local residents to the proposed eco-village at Dunsfold Aerodrome, Surrey. Report by RESOLVE and the Centre for Environmental Strategy, University of Surrey, Guildford.

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- † Acuña-Rivera, M. Uzzell, D, and Brown, J. (2008) 'Disorder and perceived risk: their influence in perceived safety', Paper presented at the 2008 IAPS Conference: "urban diversities, biosphere and well-being" Rome, 28th July – 1st August, 2008
- § Chitnis, M. and L. C. Hunt (2008). "UK Household Energy Expenditure and CO2 Emissions", 2nd Asian Conference of the International Association for Energy Economics, "Energy Security and Economic Development under Environmental Constraints in the Asia/Pacific region", 5-7 November, Perth, Australia.
- § Cooper, G (2008). Sustainable lifestyles: tense online discussions. *Britain in 2009: the state of the nation*. Swindon: Economic and Social Research Council.
- § Fudge, S. (2008). 'Making Political Science Matter: Debating Knowledge, Research and Method'. S Schram and B Caterino (eds). Book review In *Energy Policy* 36:1.
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- ‡ Jackson, T, N McBride, S Abdallah and N Marks (2008) measuring regional progress: a regional index of sustainable economic well-being (R-ISEW) for all English regions. A report to East Midlands Development Agency. London: nef.
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- ‡ Black, C., D. Broadstock, A. Collin and L.C. Hunt. (2007). 'Filling in the gaps' in transport studies: A practical guide to developments in data imputation methods', *Traffic Engineering and Control*, Vol. 48, No. 7, pp. 358-363
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- ‡ Broadstock, D, S. Sorrell and L.C. Hunt (2007) 'Elasticity of Demand': UK Energy Research Centre (UKERC) Review of Evidence for the Rebound Effect, Technical Report 3, October, Ref: UKERC/WP/TPA/2007/011
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- § Fudge, S. (2007). Review of 'Science, Culture and Modern State Formation' by P. Carroll. *Science Studies*. Vol 20:1.
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- § Jackson, T 2007. Lord, make me a green tourist – but not just yet. *The Edge*. July 2007, 9-10.
- † Stancioiu, O, Speller, G. and Uzzell, D (2007) 'Public space: everybody's, nobody's or mine? A case study of Mănăştur, Cluj in post-communist Romania'. Paper presented at the International Scientific Symposium Housing And Environmental Conditions In Post-Communist Countries at The Silesian University of Technology, Poland, 11-12 October 2007
- † Palmer J., B. Boardman, C. Bottrill, S. Darby, M. Hinnells, G. Killip, R. Layberry, H. Lovell. (2007). Reducing the Environmental Impact of Housing. Final Report. Royal Commission on Environmental Pollution's 26th Report on the Urban Environment. <http://www.rcep.org.uk/urbanenvironment.htm#studies>
- § Peters, M. (2007) Lifestyle Research Study: selected findings from a questionnaire-based survey with residents in the London Borough of Richmond-upon-Thames. RESOLVE report to Richmond Council.
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- † Bottrill, C (2006). Understandings Domestic Tradable Quotas (DTQs) and Personal Carbon Allowances (PCAs). Environmental Change Institute, Oxford University. <http://www.eci.ox.ac.uk/research/energy/downloads/pct/dtq-and-pca.pdf>
- † Bottrill, C. Ed (October 2006). Report from the Personal Carbon Trading: An Exploratory Research and Policy Workshop. UK Energy Research Centre Meeting Place, Imperial College, London. http://www.ukerc.ac.uk/Downloads/PDF/R/RVK_PCT_FinalReport_Oct06.pdf

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- § Bradley, P., Druckman, A., Jackson, T. and Papathanasopoulou, E. (2006). Attributing Carbon Requirements to Households Using Input-Output Techniques: Data Recommendations. RESOLVE discussion document, University of Surrey.
- † Mulugetta, Y, Doig A and T Jackson 2006. *Energy for Rural Livelihoods: a framework for sustainable decision-making*, London, ITDG Publishers.
- † Powell, J.C., R. Tinch, O. White, and M. Peters, (2006) Successful Approaches to Sustainable Procurement: A report to the Department for Environment, Food and Rural Affairs. Defra, London
- † Uzzell, D., Muckle, R., Jackson, T., Ogden, J., Barnett, J., Gatersleben, B., Hegarty, P., and Papathanasopoulou, E. (2006). "Choice Matters - Alternative Approaches to Encourage Sustainable Consumption and Production. Final Report to the Department for the Environment, Food and Rural Affairs" London: Defra.
- † Uzzell, D, R Muckle, T Jackson, J Ogden, J Barnett, B Gatersleben, P Hegarty, and E Papathanasopoulou. (2006). Choice Matters - Alternative Approaches to Encourage Sustainable Consumption and Production. Technical Report to the Department for the Environment, Food and Rural Affairs. London: Defra.

Key Performance Indicators

Indicator Group A: Publications

In the following Table we denote the total numbers of publications for the period 1st April 2008 – 31st March 2009 in different categories (books, journals etc), subdivided by the relevance to RESOLVE as indicated by the following symbols:

- § denotes outputs (published, in press or in draft) which have arisen entirely from RESOLVE research funded under the core budget
- ‡ denotes outputs (published, in press or in draft) which have arisen at least partly from RESOLVE research funded at least partly under the core budget.
- † denotes outputs which are RESOLVE-relevant and have involved contributions from at least one of the RESOLVE team.

	A1. Books	A2. Book chapters	A3. Journal articles	A4. Conf Papers	A5. Resolve Working Papers (inc. draft)	A6. Other pub- lications	Total
§	0	3	11	16	8	5	43
‡	0	0	18	8	0	5	31
†	1	2	11	7	0	1	22
Total	1	5	40	31	8	11	96

Indicator Group B: Dissemination and External Relationships

B1: The RESOLVE Interdisciplinary Seminar Series

The RESOLVE Interdisciplinary Seminar Series (RISS) continues to thrive. In the period 1st April 2008 to the 31st March 2009 11 seminars were hosted at Surrey. 23 seminars have been hosted in total since the beginning of RESOLVE.

Name	Date	Subject
Linda Steg	Mar 09	Encouraging pro-environmental behaviour
Peter Victor	March 09	Managing without Growth. Slower by Design, not Disaster
Helen Perkins	Feb 09	The Influence of an Ecological Worldview on Consumers' Pro-environmental Attitudes, Behaviours and Choices: What's Love Got to Do with It?
Professor Ann Phoenix	Jan 09	"I shop, therefore I am?" The interlinking of identities and consumption for young people'
Dr Bronwyn Hayward	Nov 08	Growing Greens? Children's attitudes to citizenship, environment and climate change: The New Zealand experience
Dr Jim Watson	Oct 08	Micro-generation: An energy revolution?
Diana Verde Nieto	Sep 08	Avoiding Greenwash - How to Align your Communications with Sustainable Principles and Practice
Claudia Kuss-Tenzer	Jul 08	Waste behaviour change – Linking theory and practice
Dr Julie Newton	Jun 08	Wellbeing and the Natural Environment: The impact of green spaces on wellbeing
Trewin Restorick	May 08	Delivering Sustainable Lifestyles
Professor Nora Räthzel	Apr 08	Resolving the enigma of sustainable development

B2: Invited keynote speeches

In the period 1st April 2008 to 31st March 2009 a number of senior Co-Investigators and researchers have delivered invited keynote speeches on subjects related to RESOLVE. These include the following engagements:

Dr Angela Druckman

2008

- Desirable Future? Dana Centre, The Science Museum, London, (November)

Dr Shane Fudge

2008

- 'The impact of the Landfill Tax, the Climate Change Levy and the Aggregates Tax'. Sustainable Development in the Construction Industry Conference, London (September)

Prof Lest Hunt

2008

- Panel member at the SEMBE Launch, London, Institute of Engineering (November)
- Foresight: Sustainable Energy Management and the Built Environment Project (SEMBE). British Energy Economics Conference, Oxford University (September)

Prof Tim Jackson:

2009

- 'Consumerism as Theodicy' Breathing Space invited lecture, Newcastle, (February)
- 'Live well by consuming less?' NEFCC Seminar Series on Climate Change, Newcastle, (February)

2008

- 'Values and Sustainability' Public debate, co-hosted by the RSA and WWF-UK, at the RSA in London, (December)
- "Community Action on Climate Change: Encouraging Sustainable Energy use and Practical Carbon Reduction", University of Surrey, (December)
- Sustainability in Universities: understanding and influencing behaviours and practices, University of Surrey, (September)

Dr Michael Peters:

2008

- Edgeborough Co-educational Preparatory School, Farnham, (October)
- Freiburg Solar Region: environmental, social and economic progress, Guildford, (October)
- Energy Meeting of Freiburg Twinned Cities, Freiburg, (June)
- Environmentally Conscious Households in Action, Ealing, London, (June)
- Environmentally Conscious Households in Action, Brent, London, (April)

Prof David Uzzell:

2008

- Second Annual Psychology Day at the United Nations, Psychology and Social Justice Related to the UN Global Agenda, New York, (November)
- Annual Conference , Australian Psychological Association, Hobart (September)
- Presidential Symposium on Psychological Research to Meet the Global Challenges of Climate Change and Sustainable Development: An International Symposium, Boston, (August)

B3: Membership of Committees

Members of RESOLVE are active in:

- BankInvest, New Energy Solutions Fund, Chair of the Advisory Board
- British Institute of Energy Economics (BIEE) Conference, Oxford, UK,
- British Psychological Society Climate Change Working Party
- British Sociological Association
- Carbon Trust/BSI Technical Advisory Group on PAS 2050 Carbon Labelling
- Creative Environmental Networks OurWorld Core Partner Forum
- Defra Advisory Group - Innovative Approaches to Sustainable Consumption
- Defra's Behaviour Change Forum
- Defra's Sustainable Consumption and Production Evidence Base Advisory Team
- Department of Innovation, Universities and Science (DIUS) Foresight Project: Sustainable Energy Management and the Built Environment (SEMBE)
- Environment Agency, Science Advisory Panel
- EPSRC, Environment Crime and Society, Strategic Advisory Team
- EPSRC, Adaptation and Resilience to Climate Change Review Panel
- European Sociological Association
- IAPS (International Association for People Environment Studies) board member and treasurer
- International Sociological Association
- New Economic Foundation's Local Alchemy 'Action Learning' Panel
- Royal Geographical Society (RGS).
- Sustainable Consumption Research Exchange (SCORE)
- Sustainable Development Commission, Economics Commissioner
- Sustainability in Science Committee, The Science Council – BPS Representative
- Sustainable Urban Environment (SUE) Waste Consortium Steering Committee
- UK Parliamentary and Scientific Committee

B4: Membership of networks

Members of RESOLVE are active in:

- Development Studies Association (DSA)
- Environmental Sustainability and Climate Change Community of Practice (hosted by the Improvement and Development Agency)
- European PhD support network, Muenster University Food Climate Research Network
- Food Climate Research Network
- Green Alliance
- IAPS Sustainability Network
- International Association of Applied Psychology (IAAP)
- Institute of Environmental Assessment (IEMA)
- Institution of Engineering and Technology (IET)
- New Economics Foundation
- Nottingham Declaration Community of Practice (hosted by the Improvement and Development Agency)
- PEKEA (Political and Ethical Knowledge of Economic Affairs)
- Resource Recovery Forum
- the Royal Society for the encouragement of the Arts Manufacture and Commerce (RSA)
- SKEP ERA-NET (Scientific Knowledge for Environmental Protection)
- Sustainable Development Research Network
- Sustainable Urban Environments (SUE) Exchange
- Space, Place and Sustainability Network, University of Umeå (supported by STINT, Swedish Foundation for International Cooperation in Research and Higher Education)
- Virtual Centre for Transport and Psychology (led by JMP consultants in Bristol)
- the World Wide Fund for Nature (WWF)

B5 – B7 Visitors to RESOLVE (for the period 1st April 2008 – 31st March 2009)

	B5.	B6.	B7.	
	Visiting Fellows	UK Visitors to RESOLVE	Overseas Visitors to RESOLVE	Total
Academic	4	7	5	16
Policy	0	3	0	3
Business	0	11	1	12
NGO	0	5	0	5
Other	0	3	1	4
Total	4	29	7	40

B8: Substantial advice and consultancy

Dr Wokje Abrahamse and Dr Angela Druckman acted as reviewers and advisors in 2009 for a literature review study of energy consumption of individual products under conditions of normal use. This report has now been submitted to the Department of the Environment, Food and Rural Affairs

Dr Tracey Bedford has carried out significant consultancy work for Defra on motivations and environmental behaviour during 2008 and 2009. More recently Tracey has completed work for the Environment Agency on sustainable behaviour mapping.

Dr Angela Druckman and Professor Tim Jackson completed some research for the Carbon Trust on the PAS 2050 Carbon Footprinting standard in 2008. The research involved assessing the life cycle greenhouse gas emissions of goods and services due to capital goods.

Dr David Evans contributed to an environmental/social change book in 2008 aimed at children and funded to be placed in every school.

Dr Birgitta Gatersleben is contributing to the Centre for Sustainable Energy's work with DTI/Ofgem on smart meter trials and has contributed to on-going work on Behaviour Change in Defra.

Dr Michael Peters was an invited peer reviewer for the UK Government Office for Science's "Sustainable Energy Management and the Built Environment" project in May 2008. During late 2008 and early 2009 Dr Peters was a Principal Investigator for Dunsfold Park Ltd, organising and leading focus groups and street surveys with local residents.

Prof Lester Hunt was a member of the Sustainable Energy Management and the Built Environment (SEMBE) panel of experts under the DIUS Foresight Programme.

Prof Tim Jackson was on the steering group of the Carbon Trust/British Standards Institute PAS 2050 standard on Carbon Footprinting. As Economics Commissioner on the Sustainable Development Commission he has been leading their Redefining Prosperity project and authored a major report on economic growth launched in March 2009. He also led and co-authored work on a green stimulus for the UK. He gave evidence on behalf of the SDC to the Environmental Audit Committee on the subject of a green stimulus. Prof Jackson continues to chair the Advisory Board for BankInvest's New Energy Solutions fund is a member of the Environment Agency's Science Advisory Panel, and has presented work and given advice to BERR, Defra, HMT and No 10 during 2008/9. He sat on the EPSRC's Adaptation and Resilience to Climate Change review panel and is a member of the Strategic Advisory Team on Environment, Crime and Society. He is still a Commissioner on the UK Green Fiscal Commission.

Prof Tim Jackson, Dr Eleni Papathanasopoulou, Angela Druckman and Pete Bradley are still involved in Defra's work on the Sustainable Consumption and Production Evidence Base.

Prof David Uzzell continues to undertake advisory roles for the British Psychology Society, Surrey County Council and Waverley Borough Council,

B9: Media coverage – newspapers/web/magazines

Dr Michael Peters was mentioned in the SurreyLife News on 27th October 2008 due to his participation in the 10th Conference on Environmental Education in Europe. In addition to this Dr Peters' attendance at the Energy meeting in Freiburg in June last year also received a mention in the Spring Guildford-Freiburg Newsletter. Prof Tim Jackson has been cited in the Daily Telegraph, the Times Higher Education Supplement, Green Futures and the Civil Engineer. His article 'What Politicians Dare not Tell you' was published in the New Scientist (November 2008) and received extensive web coverage. An extended interview with Prof Jackson appeared in a Brazilian magazine. The work of RESOLVE was highlighted in the ESRC magazine *Britain in 2009*, which included three separate articles featuring RESOLVE projects. Dr Eleni Papathanasopoulou and Professor Tim Jackson's journal paper 'Measuring fossil resource inequality – A case study for the UK between 1968 and 2000' was covered (March 2009) in a web article on the Environmental Research Web website. Prof Jackson's report for the Sustainable Development Commission, *Prosperity without Growth?* was covered in the Guardian, the Financial Times, The Sunday Times, Metro, and the Sunday Herald and received extensive web coverage. Tara Garnett's report *Cooking up a Storm* was reported widely in the broadsheets.

B10: Media coverage – radio and TV

As a result of his prior engagement with BBC Newsnight's 'Ethical Man' team, Prof Jackson appeared on BBC Newsnight, BBC Breakfast and Granada news during early 2009. He also appeared on Channel 4 news in June 2008 in his capacity as Economics Commissioner on the Sustainable Development Commission. In March 2009, he was interviewed by the BBC World Service following the launch of *Prosperity without Growth?* Tara Garnett has given interviews for BBC Radio 4 in particular in relation to *Cooking up a Storm*.

B11: Seminars, conferences and workshops attended

RESOLVE researchers and Co-investigators have attended numerous conferences, seminars and workshops in the period 1st April 2008 – 31st March 2009 as outlined in the Table below

	Presented Papers	Invited Talks	Poster Presentations	Total Attended (inc. presentations)
International Conferences	10	3	0	13
Academic seminar, or workshop	9	6	0	16
Policy Seminar or workshop	0	5	2	9
Other Seminar or workshop	0	1	0	1
Total	17	15	2	39

B12: International collaborative research projects participated in by Centre

- UNEP Global Survey on Sustainable Lifestyles
- Chinese questionnaire on young people's values
- Sustainable Consumption Research Network (SCORE)
- BarEnergy EU FP 7 Consortium
- Sustainability Beyond Growth – EU FP7 Proposal
- COASTS – EU FP7 Proposal
- BXL workshop on Growth in Brussels
- Sustainable Consumption Proposal - New Zealand
- European Social Survey – proposal for a module on Wellbeing Materialism and Sustainability
- Canada House – UK/Canada workshop
- University of Umeå

Indicator Group C: Financial resources**Budget information**

- C1) Actual spend on ESRC budget to date;
 *(Actual costs as at 20th February 2008; staff estimate to 31st March 2008)
 **(Actual costs as at 12th March 2009; staff estimate to 31st March 2009)

	1 May '06 – 31 Dec '06	*1 Jan'07 – 31 Mar '08	**1 Apr '08- 31 Mar '09	Cumulative Total
Staff	157,015	398,379	359,617	915,011
Overheads	72,228	183,254	1,654,24	420,906
Travel & Subsistence Consumables	4,652	16,759	29,741	51,152
Exceptional	10,002	60,418	-54,209	16,211
Equipment	5,706	7,953	1,718	15,377
TOTAL in £	250,566	676,974	508,662	1,436,202

The projected budget of operation of RESOLVE between 1st April 2008 and 31st March 2009 was £687,857. As detailed in table C1 above, the actual spend on the ESRC budget for the period 1 April 2008 – 31 Mar 2009 is £508,662. The main difference between projected and actual spend is attributable to delays in disbursement of social research costs; a delay in appointment of one of the RAs, and success in attracting additional co-funding for travel and subsistence and social research costs.

- C2) Host Institution Contributions

	1 May '06 – 31 Dec '06	1 Jan '07 – 31 Mar 08	1 Apr '08 - 31 Mar '09	Cumulative Total
Academic Staff	32,503	91,681	85,951	210,135
Non Academic Staff	3,749	963	1,257	5,969
Research Studentships	16,825	3,240	0	20,065
Accommodation	21,937	43,663	40,116	105,716
Refurbishment	5,000	0	0	5,000
Equipment	1,950	3,750	1,800	7,500
Consumables	1,379	2,555	0	3,934
TOTAL in £	83,343	145,852	129,124	358,319

The Host Institution Contribution for the period to the end March 2008 was £129,124. This contribution represents 25.4% of the core ESRC spend. The cumulative Host Institution Contribution to end March 2009 was £358,319, representing 25% of the core ESRC over the period of the grant so far.

C3) 3rd Party Financial Contributions

	1 May '06 -31 Dec '06	1 Jan '07 - 31 Mar '08	1 st April 08- 31 st Mar 09	Cumulative Total
Associated Academic Staff (EPSRC)	13,437	36855	6,551	56,843
Associated Academic staff (other)		30012	6,000	36,012
Research Studentships (Other)	8,000	0	12,770	20,770
Consultancy/Advice (Carbon Trust, BBC, Eden Project, Environment Agency)	2,500	0	9,700	12,200
British Council		4,720	-4,720	0
Defra 407		64452	44,333	108,785
BARENERGY FP 7 Project		0	49060	49060
BERR		4126		4126
TOTAL in £	23,937	140,165	123,694	287,796

Additional financial contributions from third parties (including other research councils and consultancy payments) during RESOLVE's period in operation to date amounted to £287,796, equivalent to 20% of the core ESRC spend. This number excludes contributions in kind.

Indicator Group D: Staff resources

Table 1 below shows the staff resources available to RESOLVE at the present time, together with the sources of funding and percentage time on the project. Core funded researchers are supplemented by a significant contribution from University of Surrey Co-Investigators and a number of externally-funded researchers, PhD students and visiting fellows.

Table 1: Staff resources and effort on RESOLVE

NAME	Main area of work	Role	Total months on project to date	Time (% FTE) on RESOLV E-related research	% from ESRC grant	Additional funding source
Prof. Tim Jackson	All	Director	35	100%	70%	Host
Dr. Kate Burningham	V3	Co-Investigator	35	10%	-	Host
Dr. Geoff Cooper	V3	Co-Investigator	35	10%	-	Host
Dr. Nicky Green	V3	Co-Investigator	35	10%	-	Host
Prof. Lester Hunt	V1/H1	Co-Investigator	35	10%	-	Host
Dr. Yacob Mulugetta	H1/2	Co-Investigator	35	10%	-	Host
Prof. David Uzzell	V2	Co-Investigator	35	10%	-	Host
Dr. Birgitta Gatersleben	V2	Co-Investigator	35	15%	-	Host
Gemma Cook	All	Co-ordinator	18	100%	100%	n/a
Dr Wokje Abrahamse	V2	Researcher	33	100%	100%	n/a
Dr. Mona Chitnis	V1/H1	Researcher	29	100%	100%	n/a
Dr Angela Druckman	V1	Researcher	34	100%	100%	n/a
Dr. David Evans	V3	Researcher	32	100%	100%	n/a
Dr. Shane Fudge	H1/2	Researcher	16	100%	100%	n/a
Dr. Michael Peters	H1/2	Senior Researcher	34	100%	100%	n/a
Peter Bradley	V1	Researcher	34	50%	-	EPSRC
Hannah Branston	V1/2	Researcher	2	40%	-	HW Uni
Scott Milne	H1	PhD student	15	100%	100%	
Alexia Coke	H2	PhD student	18	100%	100%	
Alison Armstrong	V2	PhD student	18	100%	100%	
Catherine Bottrill	V3	PhD student	18	100%	100%	
Christopher Kukla	V1	PhD student	6	100%	100%	
Tara Garnett	V1/V3	Researcher	34	25%	-	EPSRC
Emma White	V2	Researcher	5	100%	100%	
Dr Tracey Bedford	V2/3	Researcher	12	100%	-	Defra
Prof Nora Rätzzel	V2/3	Visiting fellow	24	-	-	Uni Umeo
Dr Bronwyn Hayward	V3	Visiting fellow	7	-	-	Uni Canterbury

Advisory Committee

RESOLVE has assembled a highly dedicated and very experienced Advisory Committee, chaired by Ian Christie to guide and oversee our work programme. The Advisory Committee includes both UK and international members and includes representation from academia, business consultancies, NGOs, policy-makers and delivery agencies. The full team is:

Ian Christie, (Chair)	Department of Community and Local Government
Gunilla Blomquist	Swedish Ministry of the Environment
Dr Paul Chambers	Defra
Dr Nick Eyre	Energy Savings Trust
Dr Michelle Harrison	Henley Centre
Prof Matthew Leach	University of Surrey
Rachel Muckle	Defra
Dr Ronan Palmer	Environment Agency
Dr Peter Pearson	Imperial College London
Prof Nick Pidgeon	Cardiff University
Fabienne Pierre	United Nations Environment Programme (UNEP)
Simon Roberts	Centre For Sustainable Energy
Prof Ton Schoot Uiterkamp	University of Groningen
Dr Veronica Sharp	The Social Marketing Practice
Prof Elizabeth Shove	Lancaster University
Prof Jim Skea	UK Energy Research Centre
David Vincent	The Carbon Trust
Timothy Wright	ESRC

There have been 2 Advisory Committee meetings held in the period 1st April 2008 to 31st March 2009; the most recent meeting was held on 17th March 2009. 5 meetings have been held in total since the beginning of RESOLVE.