

CAPTURING THE MULTIPLE BENEFITS OF ENERGY EFFICIENCY

Roundtable on Health & Well-being Impacts

European Environment Agency Headquarters,

Thursday 18th & Friday 19th April 2013, Copenhagen, Denmark

DAY 1 – APRIL 18, 2013

TIME	TOPIC	PRESENTERS
9:00am	Welcome and workshop opening	Jacqueline McGlade, Executive Director, European Environment Agency
Session 1. Introduction: Health and well-being impacts of energy efficiency improvements. This session will set the scene for the rest of the workshop by canvassing the key issues in introducing the health and well-being impacts into energy efficiency policy decision-making processes. <i>Moderator: Prof. Mike Davies, University College of London</i>		
9:15 - 10:15 am	Energy inefficiency as a medical issue: the range of measureable health impacts	Dr. Veronique Ezratty, Service des Etudes Médicales, EDF
	Energy is a health issue: The WHO approach to evaluating the health benefits of a green economy	Carlos Dora, Co-ordinator, Public Health and the Environment, World Health Organization
	Capturing the health benefits of energy efficiency programmes in New Zealand – a success story	Philippa Howden-Chapman, He Kainga Oranga/Housing and Health Research Programme, University of Otago, New Zealand
	Keeping the benefits while reducing risks – integrating health safeguards and energy upgrades	Ellen Tohn, Tohn Environmental Strategies, Massachusetts, USA
10.15 – 11:00 am	Discussion: <ul style="list-style-type: none"> Under what conditions can energy efficiency policy lead to health benefits, or detriments? What is the range of health and well being impacts across sectors? Transport? Buildings? Opportunities to link health and well-being impacts with energy efficiency policy What practical issues arise in integrating health and well-being impacts into policy analysis? What role can policy-makers play in steering policy towards positive health outcomes? 	Discussants: <ul style="list-style-type: none"> Veronique Ezratty, EDF Carlos Dora, WHO Philippa Howden-Chapman, NZ Ellen Tohn, USA David Ormandy, Warwick Medical School, University of Warwick, UK Dorota Jarosinska, Environment and Health, European Environment Agency
11:00 - 11:20 am:	COFFEE BREAK	



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Session 2. Understanding the impacts of energy efficiency on the indoor environment: *This session will focus in on the potential impacts, positive and negative, that energy efficiency measures can have on indoor air quality, consider the relative severity of these impacts, and tender suggestions for how policy-makers should go about designing indoor-environment-sensitive energy efficiency policies.*

Moderator: Dorota Jarosinska, Environment and Health, European Environment Agency

11:20 am - 12:30pm	The health impact of poor indoor air quality & the need for holistic energy efficiency policy	Matti Jantunen, National Institute of Health and Welfare, Finland
	The “Healthy Retrofits” project - avoiding children’s health risks during energy retrofits & home renovations in Ontario, Canada	Kathleen Cooper, Canadian Environmental Law Association (CELA)
	Mitigating the air quality impacts of school and office building renovations	Eva Csobod, Regional Environmental Center (REC), Hungary
	The need for a framework and tools for aligning EU policies related to indoor environment and energy efficiency	Stylianios Kephelopoulou, European Commission, DG Joint Research Centre (JRC)
	A policy directed framework for moving from ‘unintended consequences’ to ‘intended co-benefits’ and ‘explicit trade-offs’	Alex Macmillan, Senior Research Associate, University College of London (UCL)
12:30 – 1:15 pm	Discussion: <ul style="list-style-type: none"> What aspects of indoor air quality require close monitoring (e.g., dust, toxic chemicals, CO₂, mould, radon, temperature, humidity)? Do indoor air quality issues vary between renovations and new buildings? What role can commissioning procedures play as a practical safeguard? Can careful policy design and implementation reduce or eliminate environmental risks? What do studies suggest in terms of practical safeguards for preventing harm from energy efficiency projects? 	Discussants: <ul style="list-style-type: none"> Matti Jantunen, Finland Kathleen Cooper, CELA Eva Csobod, REC Stylianios Kephelopoulou, EC JRC Alex Macmillan, UCL Carlos Dora, WHO Torben Sigsgaard, Department of Public Health, Section of Environment, Occupation & Health, Denmark
1:15 – 2:30pm: HOSTED LUNCH		

Session 3. Maximizing the benefits of energy efficiency by focusing on vulnerable groups: *This session will look closely at how energy efficiency measures, focused on key vulnerable populations (e.g., the fuel poor, the elderly and children), can have a “multiplier effect” creating extra health and well-being impacts.*

Moderator: Ellen Tohn, Thon Environmental Strategies, Massachusetts, USA

2:30 – 3:45 pm	Capturing the significant health benefits of energy efficiency programmes for at-risk populations	Brenda Boardman, Emeritus Fellow, Environmental Change Institute, University of Oxford, UK
	Identifying fuel poor households to maximize the benefits of energy efficiency interventions	Ute Dubois, ISG Business School, Paris, France
	Estimating the health and well-being impacts of US low-income energy efficiency programmes	Bruce Tonn, Three3
	Warmer, Healthier Homes; Liverpool's Healthy Homes Programme	Ian Watson, Programme Coordinator (Healthy Homes), Liverpool City Council, UK
	Health impacts of economic recession – implications for addressing energy poverty	Helen McAvoy, Senior Policy Officer, Institute of Public Health in Ireland (PHI)

3.45 - 4:15pm : COFFEE BREAK		
4 :15– 5:15 pm	Discussion: <ul style="list-style-type: none"> Who is vulnerable? How can they be effectively grouped for targeting purposes? How are our definitions impacted by economic, financial and demographic factors? What are the advantages of and limitations to different targeting approaches? Should policies and interventions differ across vulnerable groups, and if so how? How does energy efficiency compare with other policies intended to improve the health and well-being of vulnerable populations? What methodological tools are suited to estimating health and well-being impacts for vulnerable groups? 	Discussants: <ul style="list-style-type: none"> Brenda Boardman, UK Ute Dubois, ISG Bruce Tonn, Three3 Ian Watson, UK Helen McAvoy, PHI Jerrold Oppenheim, Democracy and Regulation, USA Simon Nicol, Director, Building Research Establishment, UK
5:15 pm	END OF DAY ONE: HOSTED RECEPTION	

DAY TWO – 19 APRIL 2013

TIME	TOPIC	PRESENTERS
Session 4. Mental health, well being and social impacts of energy efficiency policy: <i>This session will examine emerging evidence linking energy efficiency measures to these harder-to-measure health impacts. We will consider how these can be measured and how policy-makers might take these into account.</i> <i>Moderator: Anca-Diana Barbu, European Environment Agency</i>		
9:00 - 10:15 am	Tackling Fuel Poverty: Mental health impacts and why these exist	Christine Liddell, Professor of Psychology & Distinguished Community Fellow, University of Ulster, Northern Ireland
	Psychosocial routes from housing investment to health: Evidence from England's home energy efficiency scheme	Jan Gilbertson, Centre for Regional, Social and Economic Research & Prof. Geoff Green, Centre for Health & Social Care Research, Sheffield Hallam University, UK
	Coping strategies: behavioural responses to fuel poverty and energy inefficiency	Karl-Michael Brunner, Institute for Sociology and Social Research, Vienna University of Economics and Business
	The residential psychosocial environment, housing improvements and mental wellbeing: findings from the GoWell Programme	Prof. Ade Kearns, Professor of Urban Studies, University of Glasgow, Scotland
	The impact of noise and energy conservation solutions in houses	Martin van den Berg, WHO Technical Advisor, EEA Expert Panel on Noise

10:15 – 11:00 am	Discussion: <ul style="list-style-type: none"> • What is the relative scale and relevance of mental health and social effects? • How can mental health and social impacts be estimated or measured? • What are the indicators of improved health and well-being that policy-makers can relate to? • Will targeting EE to fuel-poor segments increase the scale of mental health benefits? • How can good policy design avoid any negative mental health impacts that might be generated by EE interventions (stress, loss of control etc)? 	Discussants: <ul style="list-style-type: none"> • Christine Liddell, UU • Prof. Geoff Green, SHU • Jan Gilbertson, SHU • Karl-Michael Brunner, WU • Prof. Ade Kearns, UG • Martin van den Berg, WHO • Marianne Rappolder, Federal Environment Agency, Germany
11:00 - 11:20am: COFFEE BREAK		
Session 5. Incorporating health impacts into assessment of energy efficiency policies and programmes. <i>This session will present practical experience, from the policy making and evaluation communities, in communicating the health and well-being impacts of energy efficiency policies. We will consider how best to make the link between evaluation results and policy decision-making and design and how this could be communicated in the Handbook.</i> Moderator: Nina Campbell, IEA		
11:20 am -	Estimating the health benefits of home energy efficiency interventions in England	Mark Ewins, UK Department of Energy and Climate Change (DECC)
12:30pm	Capturing the multiple benefits of sustainable buildings: a case study in integrating housing, energy efficiency and health policies	Alaitz Landaluze, Innobasque, Eco-Innovation Program Director, Technology Park of Bizkaia, Spain
	The New Zealand Example: capturing health benefits for NZ's vulnerable populations	Christine Patterson, Senior Advisor, Energy Efficiency and Conservation Authority of New Zealand (EECA)
	Implementation of the Polish energy efficiency policy in housing sector and related health and well-being benefits and threats	Roman Babut, Advisor for International Affairs, Polish National Energy Conservation Agency (KAPE)
	Considering health benefits in Irish energy efficiency policy formulation	Jim Scheer, Sustainable Energy Authority Ireland (SEAI)
12:30 – 1:30 pm	Discussion: <ul style="list-style-type: none"> • How can evaluation be incorporated into policy design so as to measure health and well-being outcomes? • What evaluation methods from the social and medical sciences can be applied to EE? • What new data sources are needed for measurement and estimation? • Developing effective linkages between relevant ministries (e.g., health, housing, energy, transport, and environment) • What key messages should go to politicians about the health and well-being impacts of energy efficiency? 	Discussants: <ul style="list-style-type: none"> • Mark Ewins, UK DECC • Alaitz Landaluze, Innobasque • Roman Babut, KAPE • Jim Scheer, SEAI • Mike Davies, UCL • Gergana Miladinova, European Commission, DG Energy • Philippa Howden-Chapman, NZ • Grayson Heffner, IEA
1:30pm	CLOSE OF WORKSHOP	