POWER TO THE OLDER PEOPLE! AGEING, ENERGY DEMAND AND INTERGENERATIONAL RESPONSIBILITY

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Age and environmental justice

- Distributional justice: a fair distribution of environmental 'goods' and 'bads' (after Rawls, Barry)
- Justice as 'recognition': recognising and catering for specific group characteristics and needs (after Fraser, Young)
- Procedural justice: transparency; free information; democratic and inclusive decision –making (see e.g. Aarhus convention, Young)
- Enhancing 'capabilities': providing the material and social basis for people to flourish (after Sen, Nussbaum)









Energy and environmental justice

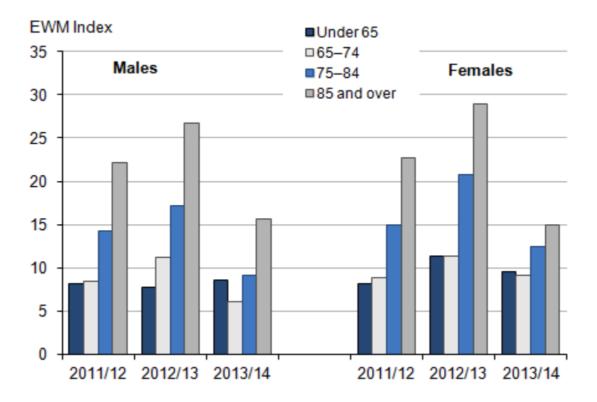
- Access to sufficient energy as an environmental resource
- Access to a healthy living environment
- Energy and specific needs
- Energy as a material pre-requisite of capabilities
- Fairness in the costs of energy production and consumption

Older people and energy 1: need and vulnerability

- Older people tend to use more energy at home
- More time at home (retirement)
- Specific physiological issues (thermoregulation)

Figure 5: Excess winter mortality index: by sex and age group, England and Wales, 2011/12–2013/14

England and Wales



Source: Office for National Statistics

Age	Total			Males			Females		
	Рор	0-E	O/E [CI(95%)]	Рор	O-E	O/E [CI(95%)]	Рор	0-E	O/E [CI(95%)]
< 35 years	26.9	67	1.1 [1.0; 1.2]	13.7	73	1.1 [1.0; 1.2]	13.3	-6	1.0 [0.9; 1.1]
<1 year	0.7	15	1.1 [0.9; 1.3]	0.4	25	1.3 [1.0; 1.6]	0.4	-9	0.9 [0.7; 1.1]
1–14 years	10.4	4	1.0 [0.8; 1.3]	5.3	-4	0.9 [0.7; 1.3]	5.1	8	1.2 [0.8; 1.8]
15–24 years	7.8	24	1.1 [0.9; 1.3]	4.0	26	1.1 [1.0; 1.4]	3.8	-2	1.0 [0.7; 1.3]
25–34 years	8.0	24	1.1 [0.9; 1.2]	4.0	26	1.1 [1.0; 1.3]	4.0	-2	1.0 [0.8; 1.2]
35–74 years	28.2	2930	1.3 [1.3; 1.4]	13.7	1773	1.3 [1.2; 1.3]	14.5	1157	1.4 [1.3; 1.4]
35 –44 years	8.6	151	1.2 [1.1; 1.3]	4.3	147	1.3 [1.2; 1.4]	4.4	4	1.0 [0.9; 1.2]
45–54 years	8.3	488	1.3 [1.2; 1.3]	4.1	364	1.3 [1.2; 1.4]	4.2	124	1.2 [1.1; 1.3]
55–64 years	6.2	615	1.3 [1.2; 1.3]	3.1	357	1.2 [1.1; 1.3]	3.2	258	1.4 [1.2; 1.5]
65–74 years	5.1	1676	1.4 [1.3; 1.5]	2.3	905	1.3 [1.2; 1.4]	2.8	771	1.5 [1.4; 1.6]
\geq 75 years	4.7	11731	1.7 [1.6; 1.8]	1.7	3505	1.5 [1.4; 1.6]	3.0	8226	1.8 [1.7; 2.0]
75–84 years	3.6	4558	1.6 [1.5; 1.7]	1.4	1910	1.5 [1.4; 1.5]	2.2	2648	1.7 [1.6; 1.8]
85–94 years	1.0	5691	1.8 [1.7; 2.0]	0.3	1355	1.6 [1.5; 1.7]	0.7	4336	1.9 [1.8; 2.1]
>≥95 years	0.1	1482	2.0 [1.8; 2.2]	0.0	240	1.8 [1.6; 2.1]	0.1	1242	2.0 [1.8; 2.3]
Total	59.9	14729	1.5 [1.5; 1.6]	29.1	5351	1.4 [1.3; 1.5]	30.8	9378	1.7 [1.6; 1.8]

Excess deaths by age and gender - France - August 1st to 20th, 2003.

Pop: estimated population in June 2003 (millions inhabitants); O: observed number of deaths; E: expected number of deaths; O-E: excess deaths, rounded up to the nearest integer; O/E: mortality ratio; CI(95%): 95% confidence interval of O/E.

From Fouillet at al, 2006, International Archives of Occupational and Environmental Health



Older people and energy 2: a travel boom among retired people?

- Tourism is generally on the increase globally...
- 'senior' tourism increasing faster than other groups
- British International Passenger survey shows trips taken by 55-64 and 65+ age groups growing much faster than for population as a whole (ONS 2013)
- European data showed 65+ age group to be the only group increasing in number of trips taken, 2006-2011 (Demunter 2012)
- Not only demographic change; also changing culture around ageing and consumption











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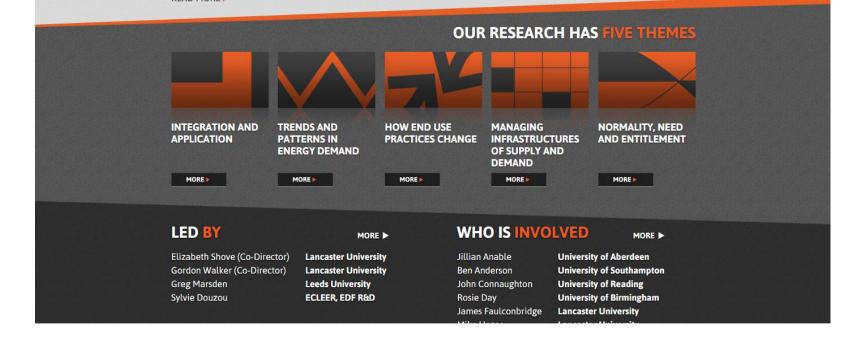
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Intergenerational responsibility

Ethic of care towards older people

- Supportive environments
- Access to resources
- agency

Responsibility towards next generations

- Consideration of legacy
- Responsible use of resources

Interdisciplinarity to support intergenerational dialogue and mutuality

Design, planning and policy

- Inclusive, flexible design
- With the involvement of older people
- Delivered efficiently and equitably
- Meeting older peoples needs while involving them in low carbon transition

http://www.sed.manchester.ac.uk/research/marc/research/conditioningdemand/

Universal design

- Equitable
- Flexible
- Simple and intuitive
- Tolerance for error
- Easy perception of information
- Low physical effort
- Suitable size and space

(see also inclusive design)

New technologies for intergenerational dialogue?

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Faculty of Engineering and	Smarter Housel	bolds	for low ca	gital networks rbon lifestyles					
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Business Services	Smarter Households is a 5 year researc	ch project that air	ns to develop an inte	ractive digital system d	lesigned to				
About Us	make it easier for households to see, u	inderstand and m	anage their energy c	onsumption and bills.					
Consultancy	The project has 4 stages:								
Research	······································								
 Professional Development 									
High Performance	High Performance levels. This will be displayed in real time on an interactive 3D dashboard, viewable on a tablet or smart phone user can display historical data and set goals for themselves.								
Engineering Centre	2. To create a Virtual Energy World Game	e (VEWG) for tablet	or smart phone, allowing						
(HPEC)	testing of different scenarios, alongside paying the utility bills.	fun and engaging a	activities in a virtual work	d, to involve those not resp	onsbile for				
Smarter Households	3. To trial the IMSS and VEWG with real O	rbit Housina Group	households for one vea	r.					

What's it all about?

- 4. To develop a low carbon lifestyles engagement activities to support the IMSS and VEWG in helping households to meet their

Using arts and humanities for expression and engagement



Stories and narratives can be...

- Historical
- Biographical
- Literary
- Architectural
- Told through different media and forms
- Analysed using different methods
- Community building
- Pedagogical
- Emancipatory





















Some reflections on interdisciplinary working

- Doesn't suit everyone!
- Need to be open minded
- Don't take vocabularies for granted
- Disciplinary modes of interaction can differ
- Build in time for discussing core concepts and team building

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Stories of Change: storieseverydaylives.wordpress.com @energeticstory

Smarter Households:

google smarter households coventry university

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