

Transition Edinburgh. Contributions from event September 21 Building Emissions

GROUPS WERE CONCENTRATING ON HEATING BUILDINGS, REDUCING CARBON BUT USING FOSSIL FUELS.
All statements from groups have been included.

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What	Who	How	When	Comment
Create better buildings New builds	Architects design better for energy efficiency	Communicate better with energy experts	All new builds, now.	Communities need to ask for this
		Use natural ventilation while reducing heat loss		
		Improve insulation		
		Use new technologies		
		Use timber frames and pre-fabrication		
	Modern buildings and electricity use	Complexity of systems and inefficiencies		
	Planners communicate with developers	Orientate buildings for solar gain		
Create better buildings Retro fits	Local authorities	Impose community wide solutions		Use LEEP
	Local authorities	Focus on 80% of housing built to old inefficient standard of planning		
	Local authorities, landlords, owner occupiers	Know where heat is lost		
	Local authorities, landlords, owner occupiers	CHP in high rise flats		
	Landlords, owners, residents	Increase use of solar and LEDs		
	? charities like Changeworks – Govt funding support	Research possibilities Physical restrictions on what can be done to historic buildings		
	Government and	Legal restrictions on what can be		Reduce split incentives

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	planners	done in historic buildings		
	Government and landlords	Incentivise energy efficiency measures for rented properties		
	Apprentice tradesmen	Training in double glazing and insulation, better skills and better technology		
	Tradesmen and suppliers	Cut cost double glazing and insulation		
	All residents in groups of tenements	Improve tenements collective action		
Use fossil fuels more efficiently	Scottish Govt. And National planning	Set district heating targets for each city	Eg 50% Of dwellings in 20 years time	
	Planners and developers	Create spaces for drying clothes Reduce restrictions on outdoor hanging		
	Universities and Changeworks ?	Heat networks in tenements <ul style="list-style-type: none"> • Finance • Demonstration • Overcoming hurdles 		Has anyone researched potential
	Building owners	Install and use smart meters		
Heat with electricity	Architects, planners and developers Individual householders for retro fits.	Ground source heat pumps	Now	Only one mention of this; most assume heat comes from fossil fuel ?
Non fossil heat sources		Biomass – what is carbon footprint ?		Waste of building materials
		Reforestation		
		Gas from landfill		
Legislation and policy	Public bodies should have duty to cut emissions			

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	Energy performance standards for buildings	Take a holistic view		
	Scottish Government's	New Climate Change plan – all policy should embody sustainability		
	Government ?	Policy / regulation to decarbonise heat and reduce demand (as has happened with electricity) to reduce emissions, reduce fuel poverty and improve health		
		Problem with (lack of) political will and lack of money		
		All policy should be driven by values and consensus (not cost and big business)		
		All policy – bottom up approach		
	Political will !	To create efficient (standards for) new builds as well as retrofitting Can be done through community funding		
Behaviour change	All building users and managers	How to motivate people to take action		Investment / costs often high
	individuals	Don't believe gadgets will fix everything		
	individuals	No responsibility taken for climate change		
	Customers, employees and employers	Reduce overheating or retail and office premises	Over next 5 years	Current govt advice standard is 210C, should we campaign to lower this ?
	All building users Government legislation	Use heating controls which should be mandatory in all buildings		
	individuals	Learn to use heating controls Wear more clothes in winter		

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	Local authorities	Provide education in energy efficiency and better use of boiler controls		
Better communication	In communities, between architects, planners and building users			
Better understanding		Consider embodied energy and running energy in every situation		
	Building users	Are LEDS bad for health ?		
	All building owners and users	Heat demand seems to be increasing in both residential and commercial		Is this true ? Link to behaviour change
	Social housing and social support	Discrepancy between heat demand and fuel poverty		
	All building managers	Applying circular economy to buildings		
	Ask ?	Heat v. power GWh th shown What about GHG ?		
Research and new technologies	All building owners and users	Seasonality of demand and possibility of storage		
Transport issues		Need to be sustainable	Important too, not just housing	