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Challenges once an emergency has been declared?

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Public sector

Sector	1990
Energy supply	242.1
Business	111.9
Transport	125.4
Public	13.4
Residential	78.3
Agriculture	6.5
Industrial process	19.4
Waste Management	1.3
LULUCF	-2.0
Total CO₂	596.3
Other greenhouse gases	198.0
Total greenhouse gases	794.4



Million tonnes carbon dioxide equivalent (MtCO ₂ e)					
2014	2015	2016	2017	2018 (p)	
157.0	137.6	115.2	106.0	98.3	
71.0	69.5	66.4	66.1	65.9	
120.1	122.2	124.6	124.6	121.4	
7.7	7.9	8.1	7.8	8.1	
62.0	64.5	66.9	64.1	65.9	
5.6	5.5	5.5	5.6	5.6	
12.3	12.1	10.0	10.2	10.0	
0.3	0.2	0.3	0.3	0.3	
-11.1	-11.2	-11.3	-11.3	-11.3	
424.9	408.3	385.8	373.2	364.1	
90.7	89.6	87.3	87.0	84.4	
515.6	498.0	473.1	460.2	448.5	



Councils that have declared a climate emergency

- 261/408 (64%) of District, County, Unitary & Metropolitan Councils have declared a Climate Emergency to date.
- 6 Combined Authorities/City Regions

Types of declarations

- Difference in target years? 2025, 2030, 2050.....
- Scope – within ‘the council’ or ‘council and suppliers’ ‘local economic area’ ‘sub-regional’
- 63% want to hit ‘zero’ by 2030

Interface with frontline services?

- Most CO₂ reductions through electricity changes in the UK
- We need go further across the board – transport, housing, landfill.....
- And use services as adaptation platforms as well as adopting mitigation strategies

Parks and Public Realm



Copenhagen's Urban Park, Enghaveparken

Water storage provided by excavating below-grade zones where sports such as football are played when the park is dry.

When it rains water fills up into retention ponds

The water feeds into
Community Gardens

Transport and Fleet



Connected places



Waste and Resources 1

- Committee on Climate Change recommendation - Ban on sending biodegradable waste to landfill by 2025.
- Transition to low-carbon electricity generation and low-carbon heating sources welcomed
- AD sees biodegradable waste, such as food waste, treated in an anaerobic digester to break down the material in the absence of oxygen providing a biogas

Waste and Resources 2

- But.....70% of the 10 million tonnes of food wasted every year after it leaves the farm is thrown away in households.
- Since 1990, emissions from waste have fallen by 69% due to the diversion of biodegradable waste from landfill and increased capture of methane at landfill sites.

Waste and Resources 3

- It is estimated that a complete ban on biodegradable waste, supported by 70 per cent recycling rates, would reduce waste emissions to seven million tonnes of CO2 equivalent.
- A ban on sending biodegradable waste to landfill is already set to be introduced in Scotland on 1 January 2021 but..... Unprepared for the ban !
- Residual waste treatment capacity gap by 2035 of 1.01 million tonnes

Deposit Return Scheme

- Significant implications for the operation of reverse logistics
- Fleet and waste disposal?
- How do we future proof without investment?
- Viability of remaining waste streams

Housing and Civic Buildings

- As social landlords
- As 'civic' or 'municipal' residents
- Planning
- Local authority energy companies

APSE Energy Research



How do we make positive changes?

- Short term / immediate plans
- Mid-term and financial projections
- Long term goals and longer term resources
- Finance!

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Delivering for local people and local economies



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