

Climate Emergency Panels - Energy

How can we reduce energy use
and generate energy cleanly?



Tonight

1900 - 1920 Welcome and panel snapshots

1925 - 1955 Join a table

1955 - 2015 Change table

2015 - 2035 Change table

2035 - 2050 Feedback, temperature check and next steps

Three themes:

- 1) How to reduce energy in our homes
- 2) How to reduce energy in businesses, schools and buildings
- 3) How to generate energy cleanly

Climate Emergency Plan

November:

- Climate panels 12th Energy
 19th Transport
 26th Resources
- Climate panel Frome College 29th

December:

- Draft and review plan linking in with CSE's Climate Emergency Programme
- Establish working group

January: Climate emergency plan published
Mendip climate summit?

Feb: 15th Somerset climate summit



The Energy Panel



- Anna Francis
Resilience Manager
Director FRECo and
Sustainable Frome



- Lizzie Boyle (or Liz Warren):
Frome Town Councillor,
Director SE2 and FRECo



- Philip Morris
Evobead – Development
Director



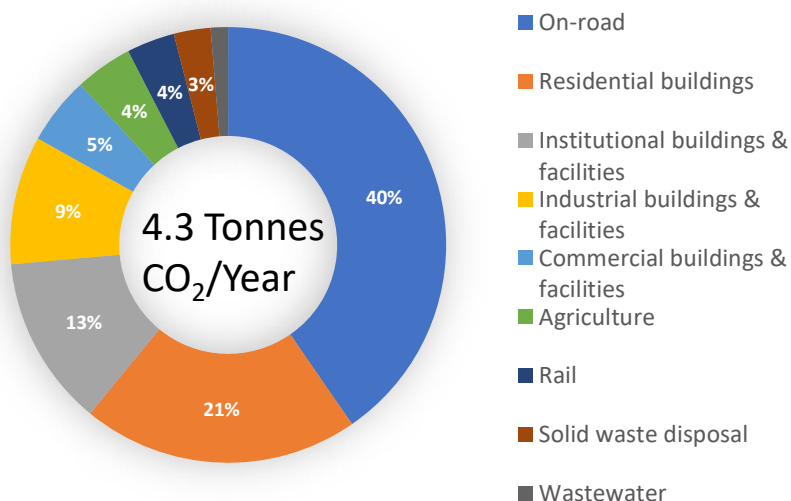
- Simon Proctor:
Bristol Energy –
Renewables and Origination Manager
FRECo Director



Made differently

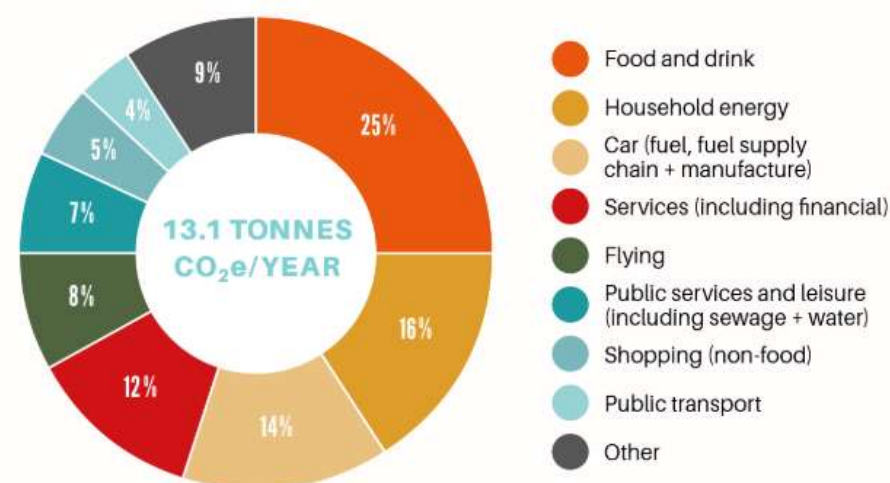
Our Footprint

Frome's Carbon Dioxide Emissions



Source: Scatter

AVERAGE CARBON FOOTPRINT IN THE UK*



Source: Mike Berners Lee – Small World Consulting

Climate Works – Clean Healthy Future report: www.frometowncouncil.gov.uk/clean-future

Who does what

- National government – legislation, funding, regulation
- Somerset – highways, school and public buildings, pension fund, transport – public and transport planning, country strategy for climate change
- Mendip – planning, business rates, car parks, land, private sector housing, environmental health
- Frome Town Council – allotments, parks, innovative projects

Clean Energy

- Solar Streets
- FRECo /
Somerset Community Energy
- Big Clean Switch:
www.bigcleanswitch.org



Clean Energy

- Saxonvale – community owned microgrid and zero carbon heat network.
- Free solar for business –Green Nation



Reducing Energy Demand



27 million 80%

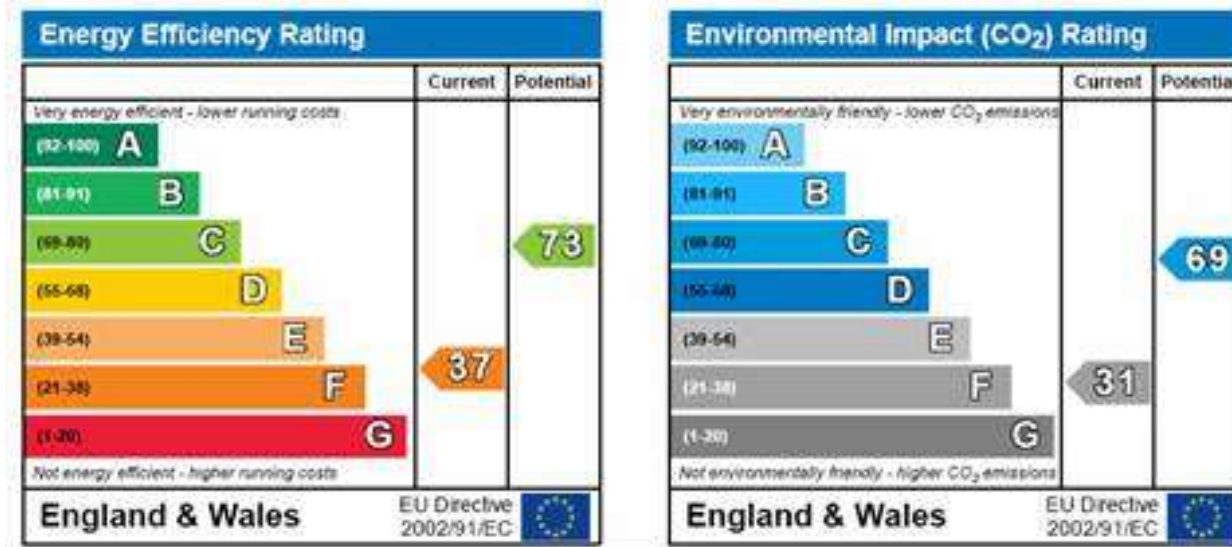
UK Housing Stock

		National %	South West %	% Difference
Energy Efficiency Rating Band EHCS 2008	A	0%	0%	0%
	B	<1%	<1%	<1%
	C	10%	8%	-2%
	D	36%	31%	-5%
	E	38%	38%	<1%
	F	13%	15%	+2%
	G	3%	7%	+4%

Energy bills

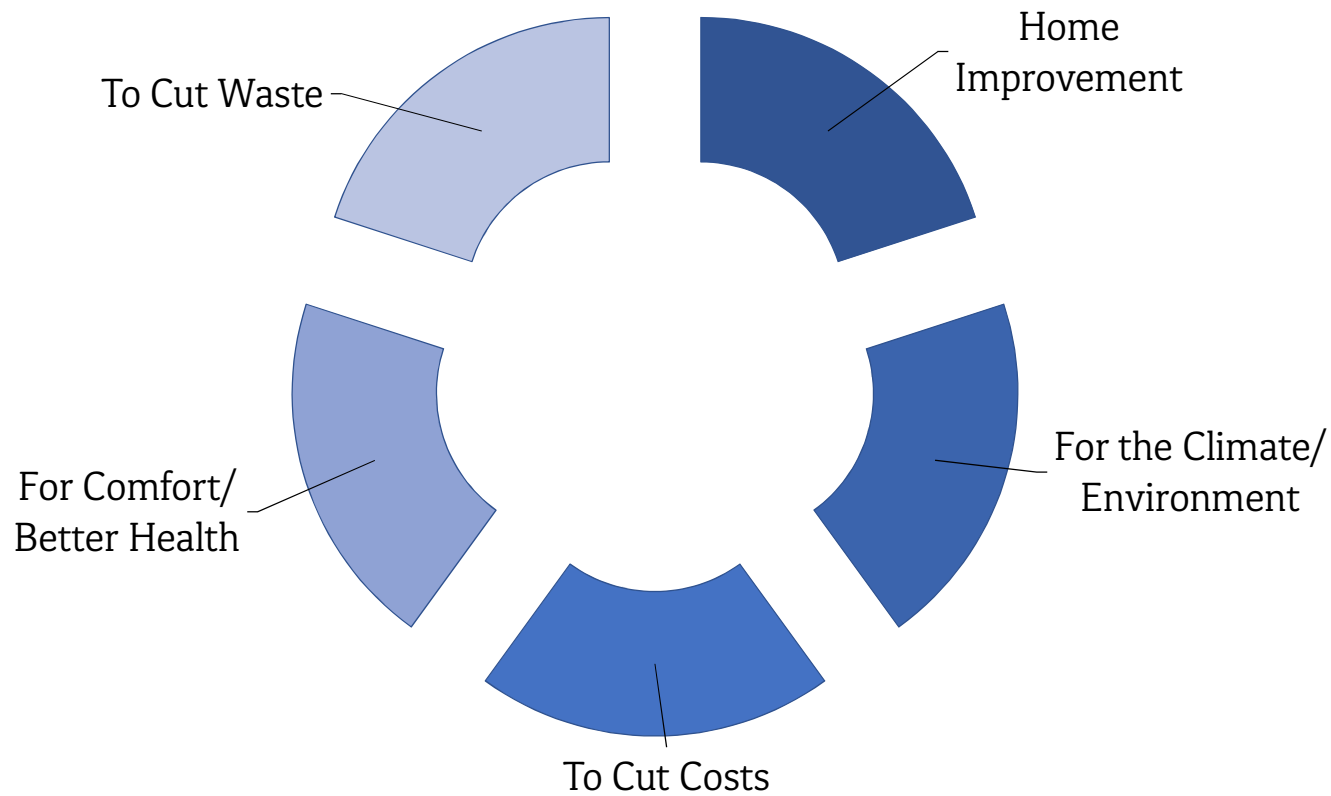
- Average band 'B' bill is £530 – band 'G' is £2200
- Moving from 'D' to 'B' is likely to half your bills
- 91% of the properties in the south west are band 'D' or below

Carbon Emissions



Motivations

What motivates people to make their homes more energy efficient?



A key issue for the General Election

Labour is pledging to cut UK carbon emissions by 10% through the largest home improvement programme for decades.

A Labour government would fund £60bn of energy-saving upgrades, such as loft insulation, enhanced double glazing and new heating systems, by 2030.

Launching the policy on Sunday, Jeremy Corbyn said it "will create a sustainable energy network", adding: "We cannot go on polluting our planet."

The Conservatives said the plan would "wreck the economy" and "put up bills".

Speaking about the policy - called "Warm Homes for All" - in south-west London, Mr Corbyn said that climate change would be a major part of the party's election campaign.

"We cannot go on standing by while climate warming increases," the Labour leader said.

- **How much could Labour's nationalisation plan cost?**
- **Labour pledges 'zero carbon' homes by 2022**
- **Reality Check: Labour's green energy plans**

Labour says low-income households will receive a grant to carry out the work on their homes, while wealthier households would receive interest-free loans for enhancements.

Households which take out the loan would pay it back through savings on energy bills, the party added.

Fuel Poverty

Currently being consulted on by BEIS

Affects 2.55 million households in England (2016)
using the new Low Income High Costs definition

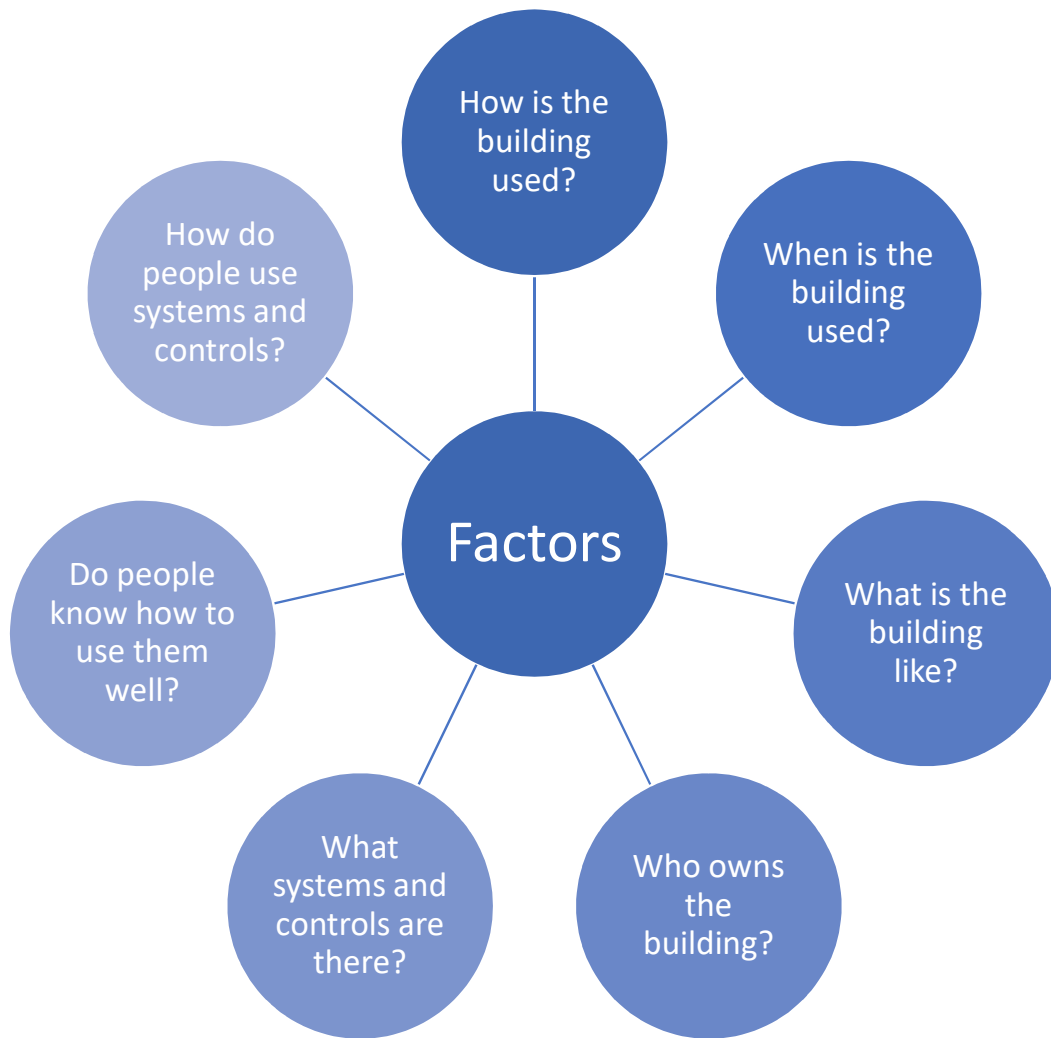
Governments in the devolved nations have retained
the traditional ten percent definition

Estimated by NEA that fuel poverty affects 3.5
million UK households – roughly 12.9% of all
households.

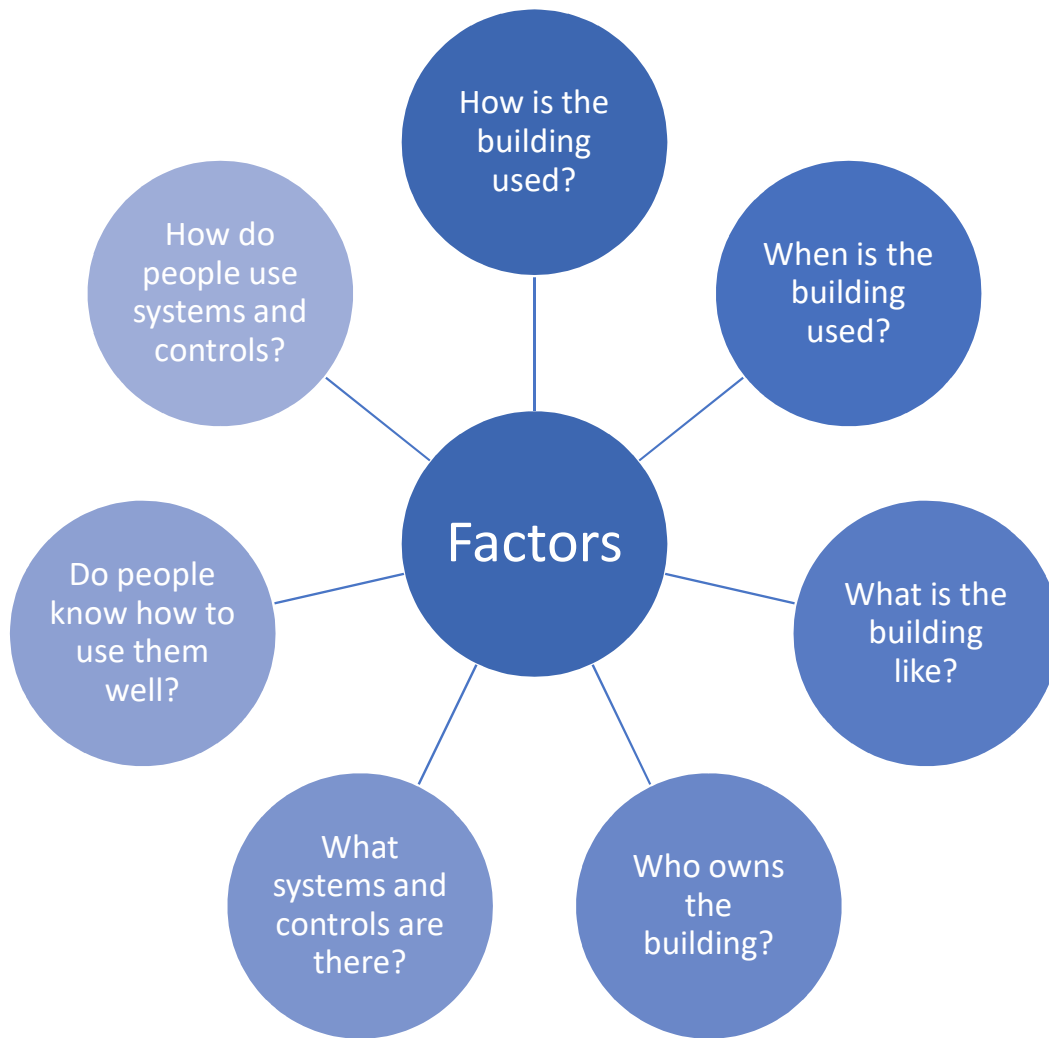
Party wall insulation



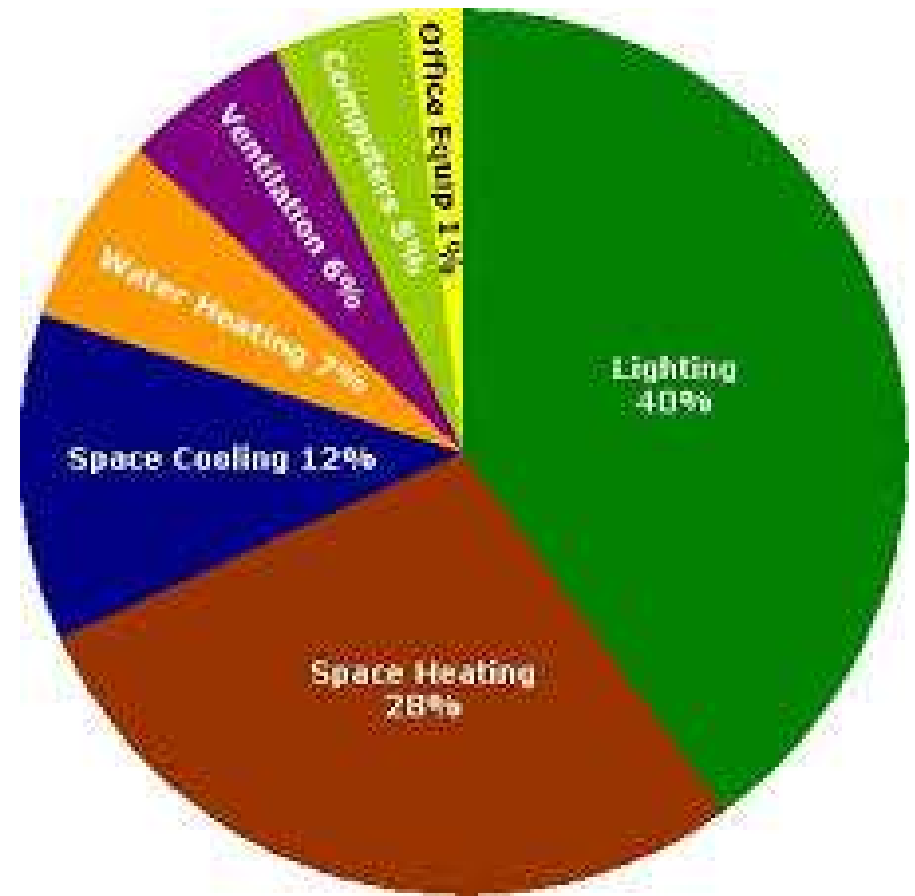
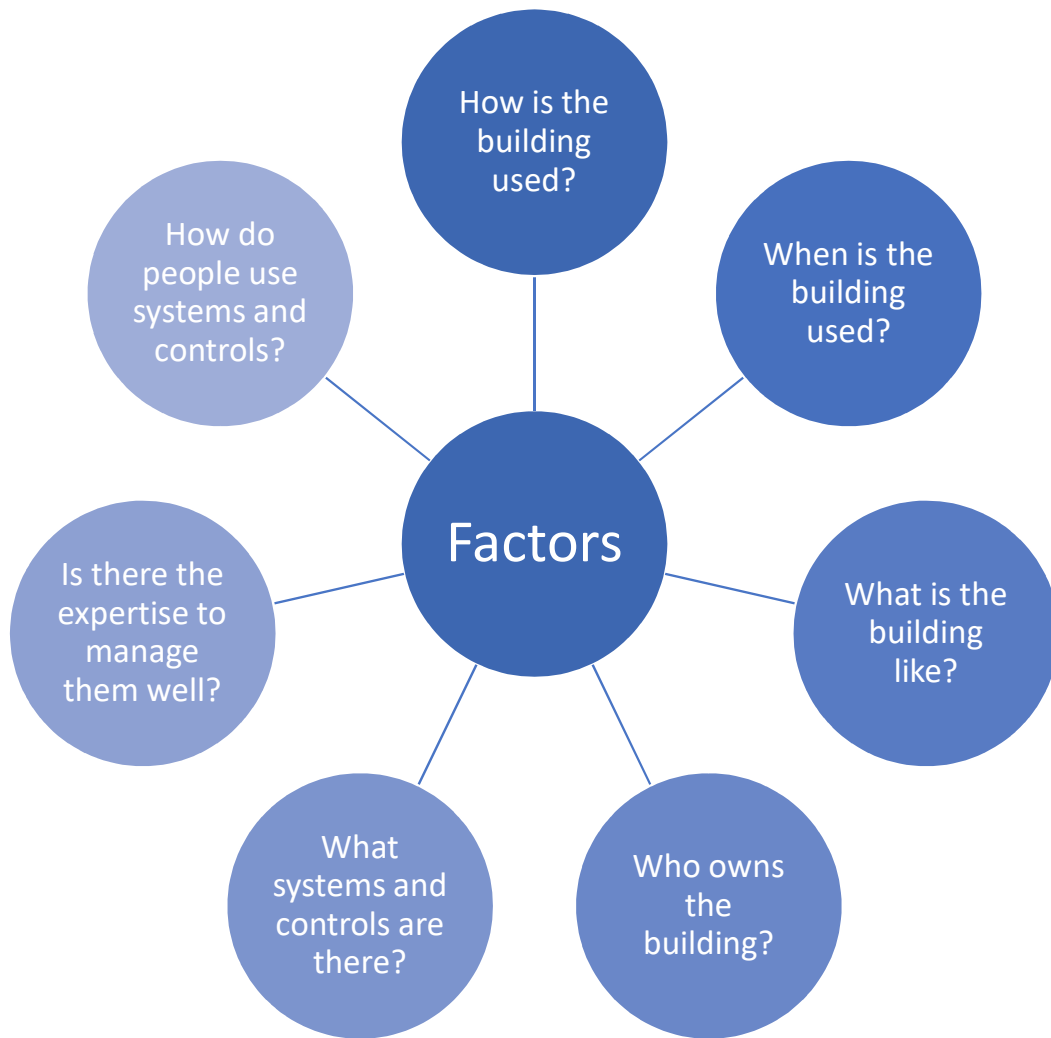
Reducing energy in other buildings



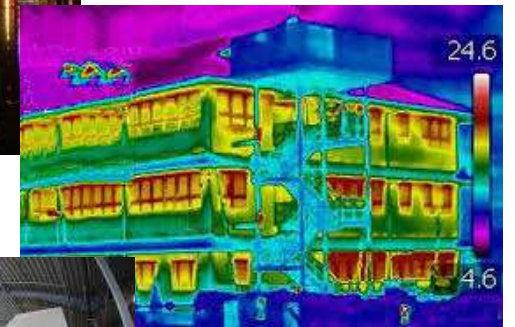
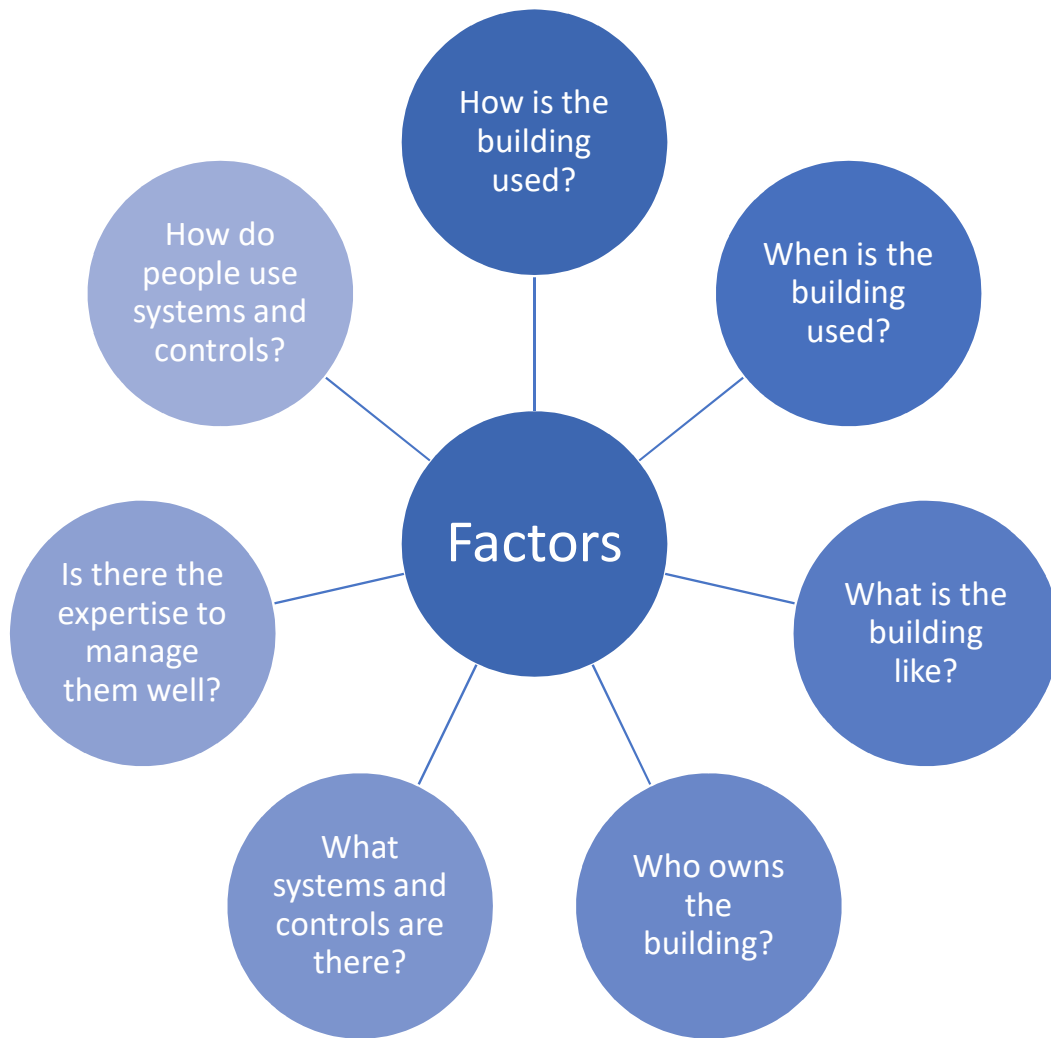
Reducing energy in other buildings



Reducing energy in other buildings



Reducing energy in other buildings



What are we already doing?

- [Energy sparks](#) – excellent free website which links schools with their energy data. Includes curriculum linked activities. 5 Frome schools already signed up, promote to others
- Good Business Framework – visits to local businesses to talk through environmental, social and economic approaches to being a sustainable business and develop action plans
- Working with FRECO and Green Nation on a Solar for Business scheme
- Non-energy initiatives such as Plastic Free Frome, SHARE and Fridge

Generating clean energy



We've done it!



Group Discussions

1925 – 1955	Join a table
1955 – 2015	Change table
2015 – 2035	Change table
2035 – 2050	Feedback, temperature check and next steps

We've met our targets – how did we enable this to happen?

- 1) How did we reduce energy in our homes
- 2) How did we reduce energy in businesses, schools and buildings
- 3) How did we generate energy cleanly

Different roles, what can we do as a community, council, business etc
Which actions are quick / easy, which are more longer term

Choose top three actions

Next steps

- Leave your name and an action
- Climate Panels: Transport - 19th, Resources – 26th Nov
- SHARE's Swap Shop, 23rd Nov, 10-12 Frome Town Hall
- Rob Hopkins – Unleashing the Power of Imagination, 5th December 7pm, Cheese and Grain
- Report drafted by January:
www.frometowncouncil.gov.uk/climate-emergency
- afrancis@frometowncouncil.gov.uk